Precision
WEATHER INSTRUMENTS

WEATHER MONITORING SYSTEMS FOR HOME, AGRICULTURE, INDUSTRY AND SCHOOL

LOCAL OR REMOTE:
Your Weather in Real Time

2015 CATALOG

Davis Instruments

WWW.DAVISNET.COM

ISO 9001 CERTIFIED COMPANY

From Elegantly Simple to the Ultimate in Flexibility

At Davis Instruments, we take great pride in offering you a range of weather stations that are designed to provide the highest level of accuracy, reliability and ruggedness. Whether you are a weather hobbyist who simply observes the weather, or someone who relies on accurate weather data for farming, research or business, you will find a Davis weather station to meet your needs.

Design Your Weather Station

Weather enthusiasts want an accurate, reliable weather station that is both easy to install and easy to use. We've designed our Vantage Vue® and Vantage Pro2™ weather stations (complete with integrated sensor suites, information-packed consoles and long wireless distance capabilities) to meet those needs. WeatherLink® software is available separately to complete your package.

Some users want to create a customized weather system to meet their individual needs. In designing such a system, it is important to know how to mix and match sensors, transmitters and receivers; integrate specialized software; and choose the right option for remote communications. We've added small icons by each product to easily identify sensors, transmitters, repeaters, receivers and software. Compatibility charts on pages 28 and 29 will help you design the perfect weather system for your special needs. We've also included a few examples to demonstrate different usage scenarios (pages 24 and 25).

Our technical staff is happy to assist you in choosing or customizing the Davis weather station to best suit your needs. We welcome your call at (510) 732-7814.

What's New?

6621 Vantage Connect CDMA. Now uses the CDMA network. Available March 2015. *(Page 12)*

Updated look to our Rain Cones. We've added bird spikes, an improved debris screen, grip grooves and our logo to all our Vantage Pro2 Integrated Sensor Suites. *(Pages 7 and 13)*

6334 Vantage Pro2 Solar/Ag Integrated Sensor Suite. We've added a new Integrated Sensor Suite with a Solar Radiation sensor and Daytime Fan-Aspirated Radiation Shield. *(Page 13)*

7716A Mounting Tripod with Lag Bolts. Our new tripod comes with 18" lag bolts for ground installation. *(Page 9)*

7857 Stand Alone Rain Collector with Vantage Pro2 Base. Mounts on pole, post or flat surface, providing greater versatility. *(Page 15)*

Look for these additional symbols

NIST — Identifies the stations or sensors that can be NIST traceable. See page 26 for details.

Identifies stations suitable for use with GLOBE protocol. See page 26 for details.

Table of Contents

What's new 2
Design your weather station 2
Warranty and return policy 3

Complete Weather Station Systems
Vantage Vue 4–5
Vantage Pro2 6–7
Choosing the right station 8
Upgrade your Vantage Pro2 9
Mounting options 9

Receivers, Transmitters and Sensors
Weather Envoy 10
Envoy8X 11
Vantage Connect 12
Vantage Vue and Vantage Pro2 Integrated Sensor Suites 13
Special purpose stations 13–14
Additional consoles 14
Repeaters 15
Sensors: UV, solar, rain, wind, temperature, leaf wetness, soil moisture 16

Accessories
Shelters, solar power, rain collector heater, radiation shield 17

Software
WeatherLink 18–22
Add-on software modules 20–22
Integrated Pest Management Modules 20–21
Additional WeatherLink modules 21–22

Miscellaneous
Installation diagrams 23
Examples 24–25
Vantage console features 26
Weather station sensor accuracy, resolution and range 27
Sensor to Transmitter chart 28
Transmitter to Receiver chart 29
Things to consider when purchasing a weather station 30
CarChip Connect, CarChip Pro, extension cables 31

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Please contact one of our customer service representatives if you have any questions. We're always glad to help.

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For information about the WeatherLink Network visit www.weatherlink.com

Limited Warranty

We warrant our products to be free of defects in material and workmanship for one year from date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective or damaged. If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental and consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state or country to country.

Details, specifications, and prices are subject to change at any time without notice.

International Orders

We have distributors in many countries throughout the world, and we encourage you to purchase from them. They are in a better position to answer your questions and can often provide on-going service. You can find a distributor in your country by going to davisnet.com/weather/dealer_find.asp. If you can't locate a distributor in your country, please contact us for further assistance.

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Vantage Vue:
Perfect for the home weather-watcher

The Vantage Vue weather station provides accurate, reliable weather monitoring in a self-contained, easy-to-install system. Sleek but tough, Vantage Vue gives you all the weather data you need:

- Inside/Outside Temperature
- Inside/Outside Humidity
- Barometric Pressure
- Wind Speed and Direction
- Dew Point
- Rainfall

Your outdoor sensor suite sets up in minutes and transmits data wirelessly to your console anywhere in your home, school or business. In addition to displaying current weather conditions and trends, Vantage Vue also boasts the innovative Weather Center button that displays weather variables over the last 25 days. Used with the optional WeatherLink® data logger and software, you'll be able to run additional analyses.

Features:

- **Easy-to-read backlit screen**
- **Glow-in-the-dark keypad**
- **Fast updates every 2.5 seconds (10x faster than the competition)**
- **Wireless transmission from station to console up to 1,000 ft. (300 m) (3x farther than the competition)**

1. TIME & DATE
View the current time and date; or time of sunrise/sunset.

2. MOON PHASE
See the eight phases of the moon.

3. FORECAST
Icons let you know to expect sun, partly cloudy, clouds, rain or snow.

4. TEMPERATURE & HUMIDITY
Console updates outside temperature every 10 seconds and inside temperature every minute. In addition, outside humidity updates every 50 seconds and inside humidity every minute.

5. RETRANSMITS
Main console can extend range to additional consoles up to 1,000 ft. (300 m).

6. BAROMETER
Five-position trend arrow shows whether barometric pressure is rising, falling or stable.

7. VARIABLE DISPLAY OPTIONS
See updated values every 10 seconds for heat index and wind chill to get a better "feel" for the outside environment.

8. RAIN
Console updates rain totals and rain rate every 20 seconds for the last 25 hours, days, months.

9. "CHANGE IN WEATHER SINCE YESTERDAY" FEATURE
Allows comparisons of changes of temperature and barometric pressure from day to day.

10. WEATHER CENTER
Weather Center provides additional information for each weather variable, such as daily highs and lows, temperature changes by the hour and barometric value changes. Also displays astronomical data.

11. USER-FRIENDLY KEYPAD
Domed buttons are easy to feel and press. Glow-in-the-dark keypad buttons give you access to weather information at night. The "done" key returns user to "current" screen from anywhere in the program.

12. GRAPHS
Graphs the last 25 hours, days or months. View up to 50 graphs for temperature, rain, rain rate, wind and barometric pressure—all on the console.

13. "THIS TIME YESTERDAY" FEATURE
Data point on the graph indicates the weather during the same time yesterday to help compare and analyze day-to-day weather trends.

14. ALARMS
Set 22 simultaneous, different alarms to warn of dangers such as high winds, freezing temperatures, rain rate, heat index, flood warning and more.

15. WIND SPEED
See wind speed updates every 2.5 seconds. Displays wind speed in miles per hour, meters per second, kilometers per hour or knots. Provides the average and high wind speed for 2-minute and 10-minute intervals.

Multiple features included at an affordable price

The fully-integrated, corrosion-proof sensor suite is built to take all the weather your location can give—freezing winters, springtime thunderstorms, blistering summer sun and brisk autumn winds. The smaller profile sensor suite is designed to minimize visual impact in your yard or on your roof. The Vantage Vue's transmitters are also radio-compatible with Vantage Pro2, so you can mix and match components. For example, add a Vantage Vue console to your Vantage Pro2 system or extend your wireless range with long and short range repeaters. They all work together seamlessly.

6250 Vantage Vue
PATENTED

1. WIRELESS
Frequency-hopping spread spectrum radio ensures consistent transmission up to 1,000 ft. (300 m) line-of-sight from integrated sensor suite to console.

2. RAIN COLLECTOR
Self-emptying tipping spoon measures rain in 0.01" increments. Metric version measures in 0,2 mm increments.

3. ANEMOMETER
Records wind speeds as low as 2 mph (3 km/h) and is wind tunnel-tested to 180 mph (290 km/h).

4. WEATHER-PROOF HOUSING
Corrosion-resistant cover provides durability in extreme conditions. Electronics are potted or over-molded for added moisture shielding.

5. RADIATION SHIELD
Provides excellent protection from solar radiation and other sources of radiated and reflected heat for accurate temperature and humidity readings.

6. TEMPERATURE/ RELATIVE HUMIDITY
Provides outside temperature readings from -40° F to 150° F (-40° C to 65° C). Also measures relative humidity from 1 to 100%.

7. EASY INSTALLATION
Installs easily and quickly with included mounting hardware kit.

8. WIND DIRECTION
Measures wind direction in compass points or degrees.

9. SOLAR PANEL
Energizes the station during the day. Onboard super capacitor provides power at night. Lithium battery provides backup when needed.

10. BUILT-IN BUBBLE LEVEL
Allows for more accurate installation and better data collection.

6250 Vantage Vue

View and store your weather data on your computer.
See our WeatherLink software on page 18.

« *The Integrated Sensor Suite mounts on poles from 1.00" to 1.75" (2,54 cm to 4,45 cm) in diameter (pole not included).*

Vantage Pro2: Professional and rugged

The Vantage Pro2 and Vantage Pro2 Plus offer the professional weather observer or serious weather enthusiast robust performance with a wide range of options and sensors. You'll get your own local forecast, highs/lows, totals or averages and graphs for virtually all weather variables over the past 24 days, months or years—all without using a PC. Vantage Pro2 uses frequency-hopping spread spectrum radio to transmit and receive data up to 1,000 ft. (300 m) line-of-sight. Vantage Pro2 is also an excellent choice for emergency professionals, farmers, schools, researchers, municipalities and others to monitor wind and moisture conditions, irrigation requirements and potential flooding.

Features:

- **Large, backlit 3.5" × 6" (9 × 15 cm) LCD screen**
- **Fast updates every 2.5 seconds (10x faster than the competition)**
- **Wireless transmission reception from stations or repeaters up to 1000 ft. (300 m) away**
- **UV/solar radiation and evapotranspiration updates (Included with Vantage Pro2 Plus, optional for Vantage Pro2)**

1. CURRENT & HISTORICAL DATA
View current data or highs and lows for up to 24 days, months or years.

2. FORECAST
Icons let you know what to expect: sun, partly cloudy, rain or snow. 12-hour icon forecast plus 24–48 hour ticker-tape forecast at bottom of console screen.

3. MOON PHASE
Track the eight phases of the moon.

4. TIME & DATE
View the current time and date, time of sunrise/sunset, time and date of highs/lows and time and date of a graphed data point.

5. WIRELESS
Frequency-hopping, spread spectrum radio provides three times the transmission distance of the competition, improved reception through multiple walls and greater immunity from RF interference.

6. RETRANSMITS
Main console can retransmit to additional consoles up to 1,000 ft. (300 m).

7. BAROMETER
Five-position trend arrow shows whether barometric pressure is rising, falling or steady.

8. FIXED DISPLAY
Fixed display area shows the outside temperature, humidity and barometric pressure at all times.

9. SOLAR RADIATION
Included on Vantage Pro2 Plus, view solar radiation, highs for the day, month and year as well as evapotranspiration and Temp/Hum/Sun/Wind (THSW) index. Set alarms for high readings.

10. UV
Included on Vantage Pro2 Plus, view current UV index, UV index for the day, the daily, monthly and yearly highs; or change scale to see UV in current, hourly and daily MEDs. Set alarm to warn of high UV dose/index.

11. VARIABLE DISPLAY OPTIONS
View inside or additional temperatures, humidity, soil moisture, UV index, leaf wetness, wind chill, dew point and two different heat indices. (Additional sensors or stations may be required.)

12. RAIN
Umbrella icon appears when it is currently raining. View last 24 storm totals with start and end dates. View daily, monthly or yearly rainfall and rain rate.

13. STATUS INDICATOR
Blinks to let you know that data packets are being received.

14. CONTROL KEYS
Use arrow keys to scroll through data on graph or view highs and lows over time. Plus and minus keys simplify data toggling.

15. TICKER-TAPE DISPLAY
Provides expanded forecast details as well as additional information on current conditions. Displays more than 100 different messages.

16. GRAPHS
Graphs the last 24 hours, days or months of readings or highs and lows. View over 80 graphs, including additional analyses of temperature, rain, rain rate, wind and barometric pressure.

Vertical scale changes depending on what you are graphing.

17. ALARMS
Set more than 70 alarms for multiple functions simultaneously.

18. WIND
Compass rose with 16 points shows current and dominant wind direction. Inside the compass rose, view wind direction to 1° resolution, or view wind speed.

The ultimate in versatility and options

All Vantage Pro2 stations include a console and a versatile integrated sensor suite (pictured below) that combine our rain collector, temperature and humidity sensors and anemometer into one package. You can customize your Vantage Pro2 by adding consoles or the special-purpose options shown on the following pages. Vantage Pro2 weather stations are available in both wireless and cabled versions. Only the Vantage Pro2 Plus includes UV and solar sensors; however, both stations can be customized with a range of add-on options, such as soil moisture stations and long- and short-range repeaters.

Vantage Pro2 stations
(See page 8 for models) PATENTED

1. ANEMOMETER
Includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to the lightest breeze. Wind tunnel-tested to 200 mph (320 km/h).

Anemometer can be installed separately using 40 ft. (12 m) cable (included).

Optional Anemometer/ Sensor Transmitter Kit allows you to mount the anemometer in a different location than the rain collector and the rest of the integrated sensor suite, up to 1,000 ft. (300 m) from your wireless console.

2. RAIN COLLECTOR
The Vantage Pro2 rain collector meets the collection area guidelines of the World Meteorological Organization. Reads rainfall amounts in 0.01" increments. Metric versions measure in 0,2 mm increments. Includes improved debris screen and spikes to keep birds away.

3. PASSIVE RADIATION SHIELD
The most effective passive shelter available. Protects your Temperature or Temperature/Humidity Sensor from solar radiation and other sources of radiated and reflected heat. Multi-plate construction for maximum airflow.

4. 24-HOUR FAN-ASPIRATED RADIATION SHIELD
Models with 24-hour fan-aspirated radiation shields include additional radiation shield plates and a second solar panel, which powers the motor-driven fan.

5. TEMPERATURE & HUMIDITY SENSORS
Located inside the radiation shield, which protects the sensors from solar radiation and other sources of radiated and reflected heat.

6. SOLAR PANEL
Powers the wireless station during the day and charges the super capacitor for night operation. Lithium battery provides backup on cloudy days (solar panel is not included with cabled version).

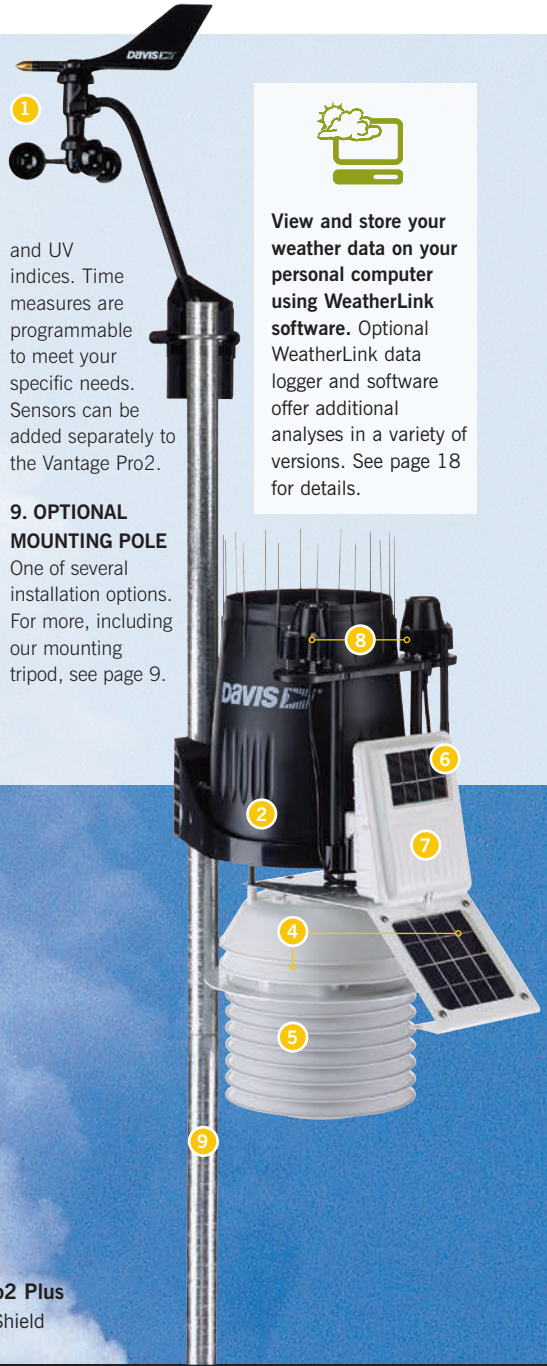
7. WEATHER-RESISTANT SHELTER
Provides protection against the elements for the integrated sensor suite's electronic components.

8. SOLAR RADIATION AND UV SENSORS (SHOWN WITH VANTAGE PRO2 PLUS)
Includes sensors to track solar radiation, evapotranspiration and UV indices. Time measures are programmable to meet your specific needs. Sensors can be added separately to the Vantage Pro2.

9. OPTIONAL MOUNTING POLE
One of several installation options. For more, including our mounting tripod, see page 9.

View and store your weather data on your personal computer using WeatherLink software. Optional WeatherLink data logger and software offer additional analyses in a variety of versions. See page 18 for details.

6152 Wireless Vantage Pro2. *Includes built-in bubble level for more accurate installation. The aluminum-plated tipping bucket in our rain collector is self-emptying, corrosion resistant and laser calibrated for exceptional accuracy.*



Pictured: **6163 Wireless Vantage Pro2 Plus** with 24-Hour Fan-Aspirated Radiation Shield

Choose the station that's right for you—from 7 different Vantage models

Vantage Vue

Vantage Pro2
Shown here: 6152

Vantage Pro2 Plus
Shown here: 6163

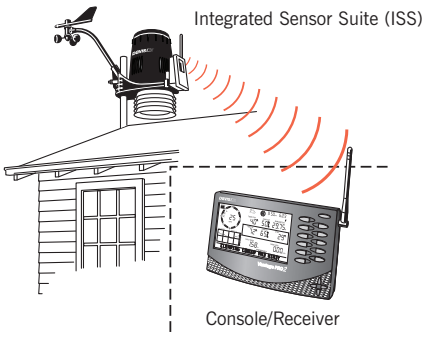
	Davis accuracy in a self-contained, easy-to-install system. Includes solar-powered transmitter.	Create a customized professional station with a wide range of options and sensors. Solar-powered transmitter and detachable anemometer. Choose a cabled station for the most economical installation. Ideal for areas where lightning risk is minimal. Choose wireless for easiest installation, additional sensor options and reduced risk of lightning damage.			Includes UV & solar radiation sensors. 24-hour fan aspiration model achieves maximum accuracy of temperature & humidity readings by circulating the air. Ideal for arid climates.		
The Davis line of Vantage weather stations is built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even more comprehensive.	6250 **Wireless**	6152C **Cabled**	6152 **Wireless**	6153 **Wireless w/Fan**	6162C **Cabled**	6162 **Wireless**	6163 **Wireless w/Fan**
CONSOLE							
Should be run using the included AC-power adapter. Add three C batteries (not included) for backup during power outages.		●			●		
May be run full-time using three C batteries (not included). May also be run using the included AC-power adapter.	●		●	●		●	●
12-hour advance forecast icons	●	●	●	●	●	●	●
24-48 hour advance forecast ticker-tape		●	●	●	●	●	●
Weather center with scroll-through data screens	●						
INTEGRATED SENSOR SUITE							
Anemometer, rain collector, temperature and humidity sensors	●	●	●	●	●	●	●
Detachable anemometer with 40' (12 m) cable		●	●	●	●	●	●
UV and Solar Radiation Sensors		Optional	Optional	Optional	●	●	●
DATA TRANSFER							
100' (30 m) cable		●			●		
Solar-powered wireless transmitter with battery backup	●		●	●		●	●
RADIATION SHIELD							
Standard radiation shield	●	●	●		●	●	
Daytime Fan-Aspirated Radiation Shield		Optional	Optional		Optional	Optional	
24-hour Fan-Aspirated Radiation Shield				●			●
ADD-ONS							
Additional consoles to view data in more than one location	Optional		Optional	Optional		Optional	Optional
Special-purpose Wireless Leaf & Soil Moisture/Temperature Station			Optional	Optional		Optional	Optional
Wireless Temperature Station			Optional	Optional		Optional	Optional
Wireless Temperature/Humidity Station			Optional	Optional		Optional	Optional
Anemometer/Sensor Transmitter Kit			Optional	Optional		Optional	Optional

Three ways to upgrade your Vantage Pro2

1. Choose a wireless model

Benefits

- Listen to up to 8 channels of data
- Use multiple consoles with 1 station
- Move the console wherever you want



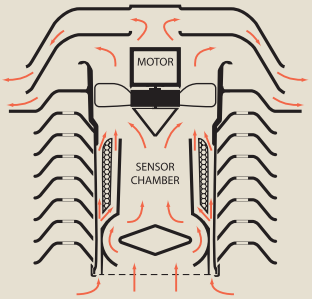
2. Choose a Plus model

Benefits

- Solar and UV sensors come pre-installed
- Console calculates ET
- See page 8 for more information

Shown here: Solar and UV sensors, and mounting shelf.

3. Choose a model with 24-Hour Fan-Aspirated Radiation Shield



Models 6153 and 6163 include our patented 24-hour fan-aspirated radiation shield for maximum accuracy of temperature and humidity readings. A motor-driven fan draws a constant airflow through the sensor chamber at 500 feet per minute (2.5 m/s). At night, when the effects of radiation are less, the solar-powered model runs on battery power and the airflow slows to 280 feet per minute (1.4 m/s). In far northern or southern latitudes, or in areas with extended periods of heavy cloud cover, there may not be enough sunlight to power the fan or recharge the battery during the winter. However, as the level of sunlight goes down, the need for fan aspiration also diminishes. The fan will start running and the battery will recharge as soon as sufficient sunlight returns.

Customize your installation

You need flexibility when deciding how to install your equipment. With that in mind, Davis provides a variety of installation options to suit your needs.

Daytime Fan-Aspirated Radiation Shield Kit

An economical solution for adding the benefits of fan aspiration by retrofitting your wireless or cabled Vantage Pro2 or Pro2 Plus. Less costly than our 24-hour fan-aspirated radiation shield, but nearly 75% as effective in reducing the effects of daytime radiation. With no backup battery, the fan only runs during daylight hours and will cease running at night when solar radiation effects are reduced. Retrofit kit for Vantage Pro2 and Vantage Pro2 Plus includes fan, solar panel, additional radiation shield plates and hardware.

7747 Daytime Fan-Aspirated Radiation Shield Kit
PATENTED

PHOTO COURTESY OF ABC NEWS

Mounting Pole Kit

Includes 2 galvanized steel poles, connector and mounting hardware. Poles measure 19.5" (0,50 m) and 21" (0,53 m) long. Assemble the 2 together to make a single 37.5" (0,95 m) long pole. Outside diameter is 1.31" (33 mm). Fits the Vantage Pro2 and Pro2 Plus, as well as the Vantage Vue integrated sensor suites.

7717 Mounting Pole Kit

PHOTO COURTESY OF ABC NEWS

Mounting Tripod

Includes two poles and galvanized steel tripod with tilting brackets on the base to mount on a roof or uneven surface, or three 18" lag bolts for ground installation. Each pole measures 36.38" (0,92 m), but can be used together to make a single 69.75" (1,77 m) pole. Fits Vantage Pro2, Vantage Pro2 Plus and Vantage Vue.

7716 Mounting Tripod
7716A Mounting Tripod with lag bolts

Send and store data directly from outdoor sensors to your personal computer with Weather Envoy

Weather Envoy™

Weather Envoy, when used along with WeatherLink software, will collect and store the same data set as a Vantage Pro2 console. Connect it to your computer with hardware included with WeatherLink for easy and convenient downloading without a console/receiver. Use WeatherLink's automatic download feature, or manually download to your computer at your convenience, then use the WeatherLink software to view current conditions, graph and chart historical data, or even create your own weather web pages. (Also compatible with WeatherLinkIP.)

Like the wireless Vantage Pro2 console, wireless Weather Envoy can listen to up to eight transmitters. However, the maximum number of each type of transmitter is limited (see comparison table on page 11).

It can also retransmit data to the console, effectively extending your station's range.

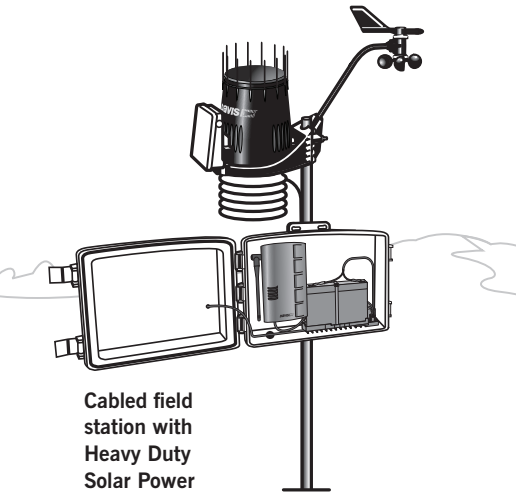
Weather Envoy includes its own barometer and inside temperature and humidity sensors. You can connect an external temperature probe (6475 or 6477) to replace a wireless Envoy's internal temperature probe (see page 15). Both the wireless and cabled versions include an AC-power adapter. Either may also be run using one of our solar power kits. The wireless model can also run on three AA batteries. Expected battery life is 4 to 6 months depending on the logging interval. Batteries should also be added to the cabled model for backup during power outages. **Requires WeatherLink (any model)**

6316 Wireless Weather Envoy

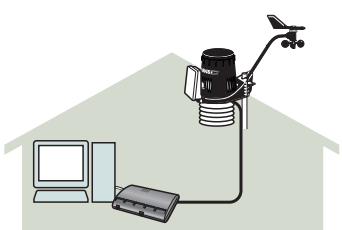
6316C Cabled Weather Envoy

NIST

Cabled Weather Envoy



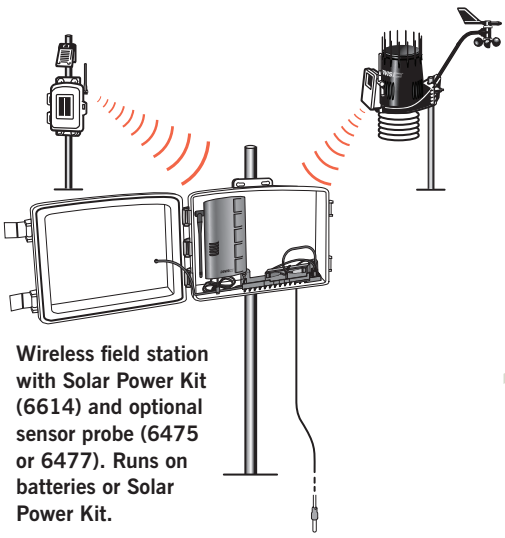
Cabled field station with Heavy Duty Solar Power Kit (6612).



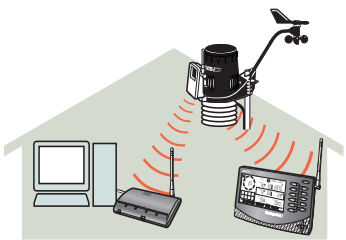
Can be used with one cabled ISS

Wireless Weather Envoy and Envoy8X

Each can listen to up to 8 transmitting stations

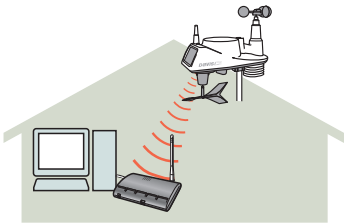


Wireless field station with Solar Power Kit (6614) and optional sensor probe (6475 or 6477). Runs on batteries or Solar Power Kit.

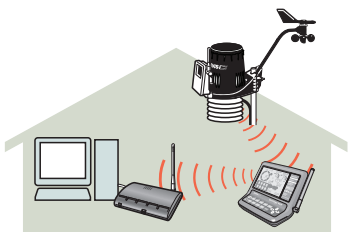


Transmit to both the Weather Envoy and console

Install Weather Envoy or Envoy8X close to your computer using the included USB cable and AC adapter.



Use Weather Envoy in place of Vantage Vue or Vantage Pro2 console.



Retransmit data to Weather Envoy from console

Envoy8X: Designed for customers who need data from multiple stations

Envoy8X™
With 32 times the memory of our Weather Envoy, Envoy8X receives and logs data simultaneously from up to eight transmitting stations, in any combination—even eight Integrated Sensor Suites or eight Leaf Wetness & Soil Moisture/Temperature Stations! Doing the math, that means you can get data from 32 soil moisture sensors on one Envoy8X! Includes robust software that allows for data from many sensors and multiple Envoy8Xs to produce very large databases in Microsoft Access, MySQL or Microsoft SQL Server. You select which sensors to log, and choose a logging interval from 10 seconds to 2 hours. You can even add select third-party sensors that report readings in a 0–3 volt range. Data can be easily exported to a spreadsheet program such as Excel, or to WeatherLink to take advantage of WeatherLink's graphing and reports.

Storage capacity depends upon the logging interval, but is so large that you can download a remote field installation when it's most convenient. For example, an Envoy8X logging two Integrated Sensor Suites and two Soil Moisture/Leaf Wetness stations at a 15-minute update interval will store **over 365 days** worth of data.

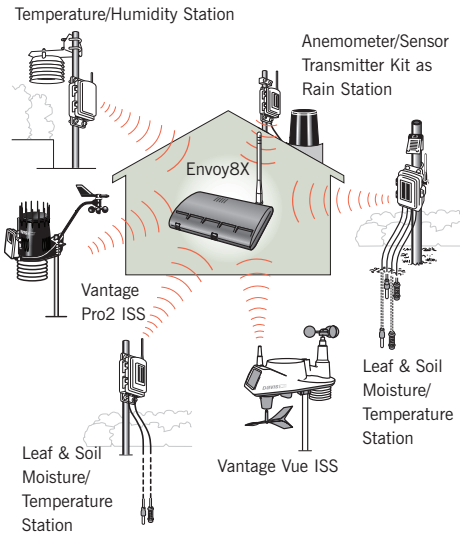
Envoy8X has built-in temperature and humidity sensors, as well as a barometer. The software will report data from those sensors as "inside" data, effectively giving you a ninth "station." You can connect an external temperature probe (6475 or 6477) to replace the Envoy8X's internal temperature probe (see page 15). Receives data from all Vantage Pro2 and Vantage Vue radios and repeaters. Includes an AC-power adapter; may also be run using a Solar Power Kit (6612 or 6614) or on three AA batteries. Expected battery life is 1 to 4 months depending on the logging interval. **Requires WeatherLink for Windows (USB or Serial). Not compatible with Vantage Connect.**

6318 Envoy8X

NIST

Envoy8X logs data from all your transmitters

Can listen to as many as eight transmitting stations in any combination



Envoy8X Software System Requirements: Windows XP or later; 32 MB memory (64 MB recommended); VGA/SVGA monitor (800 x 600 or higher recommended). MS Access run-time engine is included. MS Excel, MySQL and SQL Server are not included.

Features	Weather Envoy	Envoy8X
Can listen to up to 8 transmitters	Yes	Yes
Maximum number of integrated sensor suites (ISS)	1	8
Maximum number of Anemometer/Sensor Transmitter kits	1*	8
Maximum number of Leaf & Soil Moisture/Temperature stations	1**	8
Maximum number of Temperature stations	3	8
Maximum number of Temperature/humidity stations	2	8
Maximum number of Rain stations	1	8
Stored memory capacity: 1 ISS @ 30 min. update	45 days	5 years
How is data viewed?	On PC using WeatherLink	On PC, using Envoy8X software and WeatherLink
Most frequent logging interval	1 minute	10 seconds
Works with WeatherLinkIP and WeatherLink for Mac	Yes	No
External databases supported	None	Access, MySQL, MS SQL Server
Can export data directly to Excel	No	Yes
Retransmits to another receiver	Yes	No
Works with 3rd-party sensors	No	Yes
Compatible with repeaters	Yes	Yes
Supports 0.1 mph (0.1 m/s) wind speed reading resolution	No	Yes***

* When used to extend Vantage Pro2 anemometer from the ISS. Otherwise, 0.
** Can use 2 only if one is leaf wetness and one is soil moisture.
*** When using a Vantage Vue ISS. (Vantage Vue console does not support this resolution.)

Vantage Connect:
Bringing Even the Most Remote Weather Stations "Within Range" with Cellular Updates

Real-time weather updates delivered right to your smartphone or computer. Vantage Connect offers a new way to connect to your weather data. Now you can get real-time weather data from remote locations that may not have reliable power, but do have good cellular reception, without leaving your home or office. Vantage Connect works with both wireless and cabled weather systems.

Vantage Connect

Vantage Connect combines the data collection capabilities of a Vantage Pro2, Vantage Vue and Weather Envoy with cellular technology and an integrated data logger to transmit your weather data to a secure page on WeatherLink.com. View the data online using your computer or smartphone or download data to your PC for analysis, archiving and reporting using WeatherLink software (CD included). Vantage Connect can be configured to send you an immediate email or text message alarm when preset weather conditions, such as high wind or frost warnings, occur.

Partner Vantage Connect with a Vantage Vue ISS or any Vantage Pro2 ISS or additional transmitting stations (see page 13). Vantage Connect can either take the place of your console or work with your console to send your weather directly to the cloud. The cabled Vantage Connect installs using the 100 ft. (30 m) cable from a cabled ISS. Wireless Vantage Connect has the same 1000 ft. (300 m) wireless range as our Vantage Vue and Vantage Pro2 consoles. You can connect an external temperature probe (6475 or 6477) to replace a wireless Vantage Connect's internal temperature probe (see page 15).

Vantage Connect is a self-contained, weather resistant, solar-powered unit that comes with mounting hardware, WeatherLink software and your own WeatherLink Network account (see page 19 for more information). Requires an annual service plan and one-time activation fee; see Annual Service Plan for details.

Radio compatible with Vantage Pro2 and Vantage Vue transmitters and repeaters (see page 16). Solar-powered with battery backup. Computer system requirements: Windows XP or above. iPhone and Android compatible.

***6620 Vantage Connect, GSM**
***6620C Cabled Vantage Connect, GSM**

Annual Service Plan

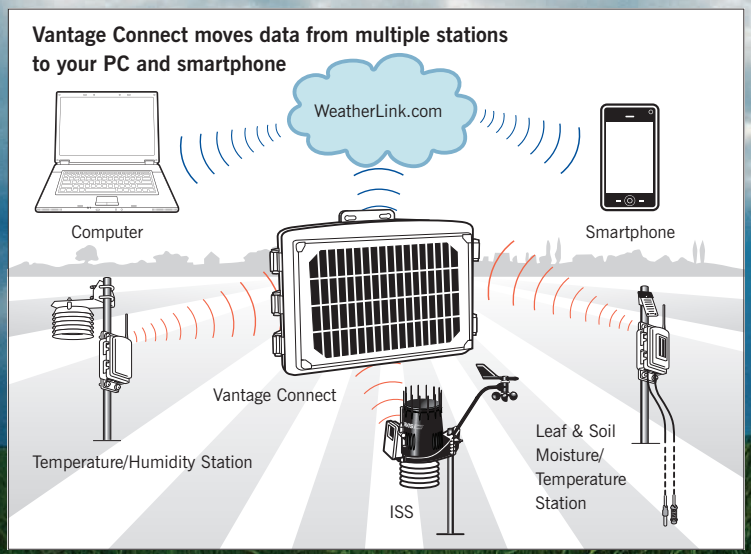
Hardware requires a one-time activation fee. Purchase of an annual service plan is necessary. Monthly subscriber fees depend on the frequency of your update interval.

CHOOSE YOUR PLAN (US ONLY)

Update Interval	Product Number	Annual Service Charge
5 minutes	6632	Contact Dealer
15 minutes	6634	Contact Dealer
60 minutes	6636	Contact Dealer

See www.weatherlink.com for product service plan information and availability for customers outside of the US.

*6621 CDMA version (US only) available March 2015



Integrated Sensor Suites

Vantage Vue Integrated Sensor Suite

Because Vantage Vue's transmitters are radio-compatible with Vantage Pro2, you can mix and match components. The ISS can transmit to Vantage Vue and wireless Vantage Pro2 consoles, wireless Weather Envoy, Envoy8X and Vantage Connect. Mounting pole not included.

6357 Vantage Vue Integrated Sensor Suite

Vantage Pro2 Integrated Sensor Suite

Includes all the features of the Vantage Pro2 and Pro2 Plus integrated sensor suites shown on page 8. Compatible with Vantage Vue and Vantage Pro2 consoles, Weather Envoy, Envoy8X and Vantage Connect. Mounting pole not included.

WIRELESS INTEGRATED SENSOR SUITE
6322 with Standard Radiation Shield
6323 with 24-Hour Fan-Aspirated Radiation Shield

CABLED INTEGRATED SENSOR SUITE*
6322C with Standard Radiation Shield

WIRELESS INTEGRATED SENSOR SUITE PLUS
with UV and Solar Radiation Sensors
6327 with Standard Radiation Shield
6328 with 24-Hour Fan-Aspirated Radiation Shield

CABLED INTEGRATED SENSOR SUITE PLUS
with UV and Solar Radiation Sensors*
6327C with Standard Radiation Shield

NEW! FOCUS ON AG

WIRELESS SOLAR/AG INTEGRATED SENSOR SUITE
6334 with Solar Radiation Sensor and Daytime Fan-Aspirated Radiation Shield

CABLED SOLAR/AG INTEGRATED SENSOR SUITE*
6334C with Solar Radiation Sensor and Daytime Fan-Aspirated Radiation Shield

NIST

* Cabled Integrated Sensor Suites can only be used with a cabled Vantage Pro2 console, cabled Envoy or cabled Vantage Connect.

All Vantage Vue and wireless Vantage Pro2 Integrated Sensor Suites can be used with Vantage Connect, wireless Weather Envoy and Envoy8X.

All Integrated Sensor Suites are compatible with WeatherLink (see page 18).

Add special-purpose stations or sensors

Customize your Vantage Pro2 weather station, Vantage Connect, Weather Envoy or Envoy8X by adding special-purpose stations and sensors. Each can receive data from up to eight different transmitting stations.

Wireless Leaf & Soil Moisture/Temperature Station (Solar-powered)

Includes a transmitter and backup battery inside a weather-resistant shelter. To view the data for up to eight stations, add an Envoy8X and WeatherLink (see chart on page 11). Vantage Pro2 console/receiver or Weather Envoy and WeatherLink can only receive data from either:

- A single fully-populated station with two Leaf Wetness Sensors, four Soil Moisture Sensors, and four Temperature Probes,
  OR
- Two partially-populated stations, one with two Leaf Wetness Sensors and two Temperature Probes, and the other with four Soil Moisture Sensors and four Temperature Probes.

Available in two models. Choose the model without sensors (6345), and add only those you need to meet your requirements. Or choose the Complete Soil Moisture/Temperature Station (6345CS), and add one or two Leaf Wetness Sensors as desired. Compatible with the 6470 Stainless Steel Temperature Probe with 2-Wire Termination.

6345 Wireless Leaf & Soil Moisture/Temperature Station *without sensors*

6345CS Complete Soil Moisture/Temperature Station *with 4 soil moisture sensors and 4 temperature probes*

NIST

More special-purpose stations

Anemometer/Sensor Transmitter Kit

With Vantage Pro2 and Weather Envoy, this solar-powered kit allows you to mount the anemometer in a different location than the integrated sensor suite—up to 1,000 ft. (300 m) from your wireless console/receiver. With Envoy8X, you can use this kit with any of our sensors including solar radiation, UV, temperature, anemometer, rain and third-party sensors that report in a range of 0–3 volts. For longer distances, add 1 or more wireless repeaters. Includes weather-resistant shelter for transmitter, solar panel, battery, and mounting hardware.

6332 Anemometer/Sensor Transmitter Kit

Wireless Temperature/Humidity Station (Battery-powered)

Features temperature and humidity sensors inside a protective radiation shield. The transmitter and lithium battery are protected by the weather-resistant shelter. Expected battery life is 6 to 9 months. Can be used with wireless Vantage Pro2 console/receiver, Weather Envoy or Envoy8X and WeatherLink. Includes hardware for mounting on fence post or pole. Mounting pole is not included.

6382 Wireless Temperature/Humidity Station

NIST

Wireless Temperature Station (Battery-powered)

Includes stainless steel temperature probe with 25 ft. (7,6 m) cable, transmitter and battery inside weather-resistant shelter and mounting hardware. Compatible with the wireless Vantage Pro2 console/receiver, Weather Envoy or Envoy8X and WeatherLink. Expected battery life is 6 to 9 months.

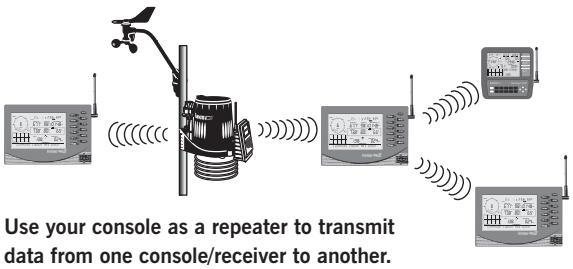
6372 Wireless Temperature Station

NIST

Add another console and get the weather report wherever you are

Vantage Vue and Wireless Vantage Pro2 Console/Receivers

Add additional Vantage Pro2 or Vantage Vue consoles to display weather data in the den, bedroom, kitchen or even in your neighbor's house, if it's closer than 1,000 ft. (300 m). Vantage Vue transmitters are radio-compatible with Vantage Pro2 so you can mix and match components. Receive data directly from the outdoor sensors or use your console as a repeater, retransmitting the data from 1 console/receiver to another, extending the transmission range up to another 1,000 ft. (300 m). With Vantage Pro2 only, an additional console can receive data directly from any of our special-purpose wireless outdoor sensors (see pages 13–14 for additional details).



Use your console as a repeater to transmit data from one console/receiver to another.

6351 Vantage Vue Console/Receiver

NIST

6312 Wireless Vantage Pro2 Console/Receiver

NIST

Extend the range of your wireless station—for miles on end!

For longer distances or to improve reception in troublesome areas, add one or more wireless repeaters. Use repeaters in a daisy chain, retransmitting from a single Vantage Pro2 or Vantage Vue Integrated Sensor Suite, or special-purpose station. You can also build a network of repeaters and wireless stations, with some repeaters listening to multiple stations, each with their own unique ID. For use with any Davis wireless transmitter and receiver.

Long-Range Wireless Repeaters

In our testing, we achieved an incredible four miles (6,4 km) of transmission distance using two of our long-range repeaters with Yagi antennas. Range varies depending on antenna height, the terrain and foliage, buildings, other man-made structures, and RF interference. Ideal for agricultural or research applications where long distances are an issue. This solar-powered model includes solar panel and lithium backup battery. Antennas are sold separately.

7654 Long-Range Repeater, Solar-Powered

REPEATER DISTANCES

Antenna Combination	Multiplier	Maximum Transmission Distance under optimal conditions **		
Dipole – Dipole *	1.00	1000'	0.2 mile	300 m
Dipole – Omni	1.58	1580'	0.3 mile	475 m
Dipole – Yagi	3.16	3160'	0.6 mile	950 m
Omni – Omni	2.50	2500'	0.5 mile	750 m
Omni – Yagi	5.00	5000'	1.0 mile	1500 m
Yagi – Yagi	10.00	10,000'	1.9 miles	3000 m

* Dipole antennas are found on all Davis wireless weather stations and standard repeaters.

** Typical distance will be less. Outdoors, line of sight with minor obstructions or interference, typical distance is about 50–80% of the maximum. Through walls or in areas with high RF interference, typical distance may be as low as 20–40% of the maximum.

Long-range repeater with one Yagi and one Omni antenna.

Antennas for Long-Range Repeaters

For use with our long-range repeaters. Each repeater requires two antennas: one to receive data, and another to retransmit it. Omni antennas transmit or receive in all directions. Yagi antennas transmit or receive from a single direction, but have a longer transmission distance. Mix and match to suit your needs using the table above.

7656 Omni Antenna

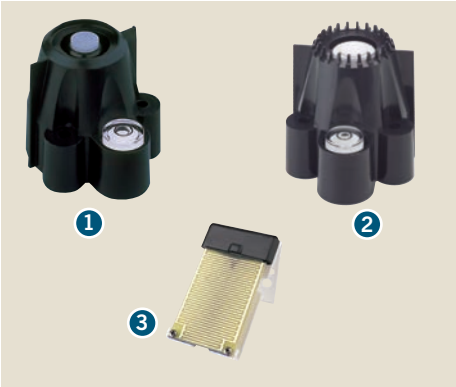
7660 Yagi Antenna

Note: FCC regulations require that US customers select from the antennas above; customers outside the US must purchase third-party antennas in compliance with local regulations.

Standard Wireless Repeaters

Ideal for most applications, uses the same dipole antenna found on all of our wireless stations. Range is up to 1,000 ft. (300 m) outdoors, line of sight. Typical range through walls is 200 ft. to 400 ft. (60 to 120 m). Solar-powered model includes solar panel and lithium backup battery.

7627 Standard Wireless Repeater, Solar-Powered



1. Solar Radiation Sensor

Measures the intensity of solar irradiance, enabling display of incident power (Watts per square meter) and cumulative energy (Langleys). Diffuser element and housing are designed specifically for accurate cosine response. Silicon photo diode provides a good match to solar spectrum. Two-piece housing minimizes radiation heating, allows convection cooling of the sensor and prevents the trapping of water or dust. To mount next to a rain collector, add our Sensor Mounting Shelf (not included, see page 17). Includes 2 ft. (0,6 m) cable.

6450 Solar Radiation Sensor

2. UV Sensor

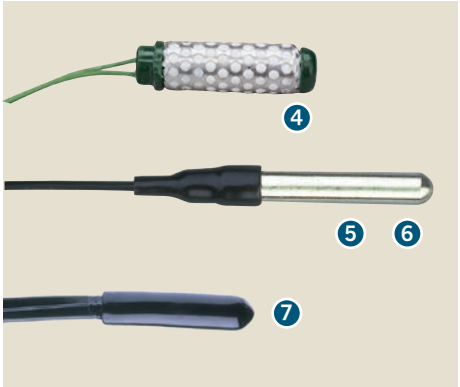
Measures the intensity of the sunburning portion of the UV spectrum (UVA and UVB), closely matching the Erythema Action Spectrum. Allows you to display UV Index, dose rate and daily and accumulated dose. Latest-technology transducer and newly-designed electronics provide greater accuracy and stability. The new comb structure provides improved cosine response accuracy at zenith angles up to 90 degrees. Two-piece housing minimizes radiation heating, allows convective cooling of the sensor and prevents the trapping of water or dust. To mount next to a rain collector add our Sensor Mounting Shelf (not included, see page 17). Includes 2 ft. (0,6 m) cable.

6490 UV Sensor
PATENT PENDING

3. Leaf Wetness Sensor

Use to monitor the level of surface moisture on foliage, with range from 0 (completely dry) to 15 (saturated). Add up to two sensors to a single Wireless Leaf & Soil Moisture/Temperature Station. Includes 40 ft. (12 m) cable.

6420 Leaf Wetness Sensor



4. Soil Moisture Sensor

Uses electrical resistance Watermark soil moisture sensor to measure the moisture level of the soil. Does not require periodic maintenance during the growing season. Simply bury at the desired depth, then monitor moisture levels throughout the season. Add up to four sensors to a single Leaf & Soil Moisture/Temperature Station. Includes 15 ft. (4,6 m) cable.

6440 Soil Moisture Sensor

5. Stainless Steel Temperature Probe with 2-Wire Termination

Multi-purpose temperature probe with 2.5" (64 mm) long stainless steel housing. Use to measure temperature of air, soil, or water. Add up to four probes to a single Leaf & Soil Moisture/Temperature Station. Includes 15 ft. (4,6 m) direct-burial cable.

6470 Stainless Steel Temperature Probe with 2-Wire Termination

NIST

6. Stainless Steel Temperature Probe with RJ Connector

Multi-purpose temperature probe with 2.5" (64 mm) long stainless steel housing. Use to measure temperature of air, soil, or water. Use with Weather Envoy, Envoy8X and Anemometer/Sensor Transmitter Kit. Includes 25 ft. (7,6 m) cable.

6475 Stainless Steel Temperature Probe with RJ Connector

NIST

7. Temperature Probe with RJ Connector

Temperature probe with durable plastic housing. Use to measure temperature of air, soil or water. Use with Weather Envoy, Envoy8X and Anemometer/Sensor Transmitter Kit. Includes 25 ft. (7,6 m) cable.

6477 Temperature Probe with RJ Connector

NIST

COMPONENTS NOT SHOWN TO SCALE

8. Anemometer

Includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to the lightest breeze. Wind-tunnel tested to speeds in excess of 200 miles per hour. Sealed stainless steel ball bearings for long life. Comes complete with mounting hardware. Includes 40 ft. (12 m) cable.

6410 Anemometer

NIST

9. Rain Collector

Designed to meet the guidelines of the World Meteorological Organization, our self-emptying rain collector with tipping bucket is exceptionally accurate. Measures in 0.01" or 0,2 mm increments. Includes 40 ft. (12 m) cable, bird spikes and debris screen.

7852 Rain Collector
PATENT PENDING

NIST

NEW 10. Rain Collector with Mountable Base

Same accurate measuring mechanism as the original design. Uses the Vantage Pro2 base for easy mounting on a pole, post or flat surface. Meets the guidelines of the World Meteorological Organization. Measures in 0.01" or 0,2 mm increments. Includes 40 ft. (12 m) cable, bird spikes and debris screen.

NIST

7857 Rain Collector with Mountable Base
PATENT PENDING

11. Turbo Meter™

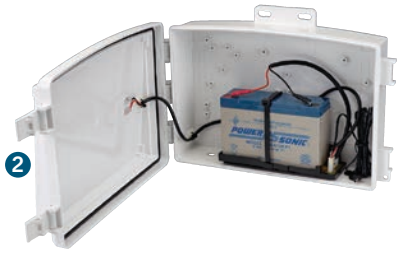
Reads wind speed in mph, knots, fpm or m/s. Turbine suspended on sapphire jewel bearings responds to the lightest of winds. 3-digit display offers excellent viewing contrast both in bright sunlight and at night. Requires 3 AAA alkaline batteries (not included). 3 oz (85 g) not including batteries.

271 Turbo Meter

NIST

See page 31 for extension cables and maximum cable lengths.

Installation options for your Vantage Vue or Vantage Pro2 console, Weather Envoy, Envoy8X or Vantage Connect



1. Solar Power Kit

Large solar panel powers a wireless console or Weather Envoy inside a weather resistant shelter. (Outdoor sensors are powered by the solar panel on the sensor suite). Includes 5-watt solar panel, weather-resistant shelter, regulator circuit, 1.4 amp hour 6-volt rechargeable battery, mounting hardware and 10 ft. (3 m) cable.

6614 Solar Power Kit

2. Heavy-Duty Solar Power Kit

Our large solar panel and a 12 amp hour battery provide enough power for a cabled console and outdoor sensor suite, an Envoy8X or wireless consoles where more power is needed. There is enough room inside the weather resistant shelter to mount an Envoy8X or Weather Envoy. When used with a Vantage Vue or Vantage Pro2 console, mount the console inside a Universal Shelter. Includes 5-watt solar panel, weather-resistant shelter, regulator circuit, 12 amp hour 6-volt rechargeable battery, mounting hardware and 10 ft. (3 m) cable.

6612 Heavy Duty Solar Power Kit

3. Extra Solar Panel Kit

Provides additional charging power to the battery in your solar power kit (6612 or 6614) or Vantage Connect (6620) for installations where sunlight is limited. The 5-watt solar panel is mounted on a weather-resistant shelter in which a console or Envoy can be mounted. Includes 5-watt solar panel, weather-resistant shelter, mounting hardware and a 4 ft. (1,2 m) cable.

6616 Extra Solar Panel Kit

4. Universal Shelter

Protects console and other components located outdoors. Weather-resistant enclosure provides protection from the elements for the Vantage Pro2 console or Vantage Vue console with or without WeatherLink data logger, or for Weather Envoy or Envoy8X with WeatherLink data logger. Includes mounting hardware. Measures 13.75" × 10" × 4.18" (34,9 cm x 25,4 cm x 10,6 cm).

6618 Universal Shelter

5. Rain Collector Heater

Heater and insulation fit neatly inside the rain collector. For use in cold climates to measure freezing rain or the moisture content of snowfall. Requires access to AC power; cannot be run using a solar power kit. Includes 24-watt, 24-volt heater with thermal cut-off switch, control unit, insulating reflective blanket and AC-power adapter. Includes 50 ft. (15 m) cable.

7720 Rain Collector Heater

6. Radiation Shield

Received 5-Star rating from the World Meteorological Organization. Protects temperature sensors from solar radiation and radiated or reflected heat sources. Multi-plate construction for maximum airflow; use with Wireless Temperature Station or Leaf & Soil Moisture/ Temperature Station and all temperature sensors.

7714 Radiation Shield
Assembly required.

7. Sensor Mounting Shelf

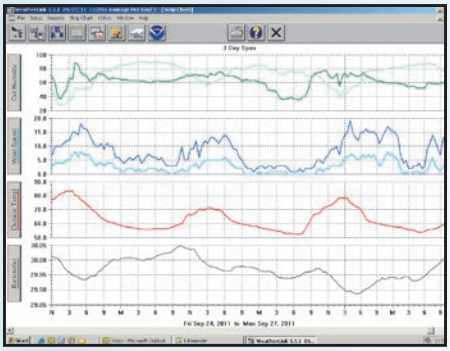
For mounting solar radiation and/or UV sensors. Rigid shelf with anodized aluminum posts and stainless steel hardware attaches easily next to the rain collector of the Vantage Pro2 Integrated Sensor Suite.

6673 Sensor Mounting Shelf

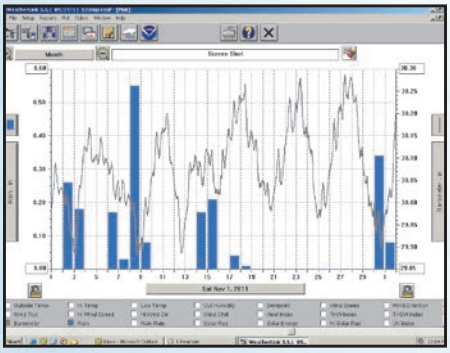
See www.davisnet.com/weather/uses to view various ways to use these kits and shelter.

Your weather data, your computer. What could be better?

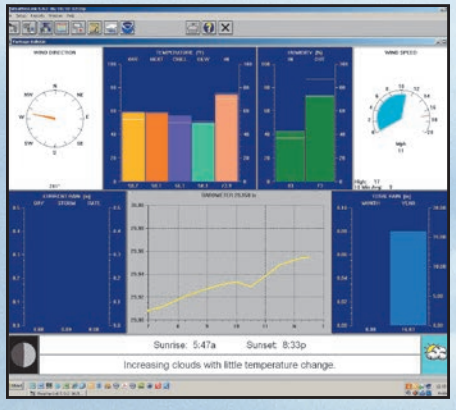
For the ultimate in weather monitoring, add WeatherLink software and data logger to any of our weather stations. The data logger fits neatly into your Vantage Pro2 or Vantage Vue console; or Weather Envoy or Envoy8X to collect and store your weather data. Connect the data logger to your computer to download the data to the software for detailed analysis and graphing. Choose our popular WeatherLinkIP model to automatically upload to the WeatherLink Network or see the chart on page 22 to determine which of our eight models is best for you.



Graph data on a daily, weekly or yearly basis.



View multiple weather variables at the same time to see their relationships.



Check current conditions at a glance on the instant weather bulletin.

Expanded Reporting

- **More Weather Data.** View weather information not available on the console, including heating/cooling degree days and fuel-oil demand.
- **Optional Sensor Reporting.** With optional UV and solar radiation sensors, get details on sunburn risk and solar energy.

Sharing Your Weather Data

- **Create Your Own Reports.** Data can be exported to most popular spreadsheets, databases and word processing programs.
- **Weather Website.** Create a weather website or post weather conditions to a LAN. Add graphs, text lines or scrolling ticker-tapes, and upload other files (such as webcam images) along with weather data.
- **Citizen Weather Observer Program.** Submit your data to the National Weather Service to help develop improved weather prediction models. www.wxqa.com
- **The GLOBE Program.** Participate with other elementary through high schools in an international weather-related program. www.globe.gov

Data Storage & Transfer

- **User-Selectable Storage Interval.** Choose 1, 5, 10, 15, 30, 60 or 120 minutes. Store up to six months' worth of data depending on the storage interval.
- **WeatherLink Models with Standard Data Logger.** Log and store data, even when the data logger is not connected to your PC. Transfer the data as often as you like, or leave the software running to transfer it automatically each day.
- **Internet Protocol (IP) Model.** Upload your weather data to the Internet within minutes. No web skills required—WeatherLinkIP does all the work for you!
- **Alarm Output & Irrigation Control Models.** Both include our standard data logger plus a connector block that allows you to connect to your irrigation system, or to a heater, fan or other device.
- **Streaming Data Logger Models.** Provide a continuous stream of data to a PC or to a ham radio with a TNC modem.

WeatherLink with Standard Data Logger

Our most popular models, for everyone from the home weather buff to the most demanding scientific user. Available in versions for both PC and Mac. (Mac versions do not include all features; see the "Notes" in the chart on page 22.) All models include data logger, download cable, software on CD, *Getting Started Guide* and on-line help. (Envoy8X is compatible only with the 6510USB and 6510SER.)

WeatherLink for Vantage Pro2 and Vantage Vue
6510USB Windows USB Version
6510SER Windows Serial Version
6520 Mac® OS X Version

Data logger fits neatly into all Vantage Pro2, Vantage Vue, and Envoy models. (Appearance varies depending on model.)

Easily view your weather data on the web

WeatherLink.com is Davis' global weather network with thousands of weather stations reporting. Each reporting station has its own page on the site and is shown on the map as a temperature-color-coded dot that makes it easy to see temperatures worldwide. Click on a dot to see current weather conditions for that station. Each WeatherLink.com account also includes a private page with enough storage capacity to store up to two years' worth of weather data.

WeatherLinkIP data logger installed in a Vantage Vue console.

Adding your station to the WeatherLink Network is as simple as "plug-and-play"—no web skills needed! Simple configuration steps are required to upload to third-party sites or set e-mail alert conditions.

On WeatherLink.com you can:

- Automatically upload data to third-party weather sites including CWOP (Citizen Weather Observer Program), Weather Underground, the GLOBE Program and more.
- Get e-mail alerts of current weather conditions or simple alarm conditions.
- Download the data to your PC for all the same powerful charting, graphing and analysis of WeatherLink software. Extra User License Kits allow you to download the data independently to multiple PCs—ideal for schools, agriculture, scientific fieldwork and remote locations.
- Store four times the data that can be stored on your data logger alone.
- View your data on the WeatherLink.com map or your iPhone or Android app.
- Allow others to view your current weather data, or flag your page as private.

Free Mobile Apps

See your WeatherLink Network station's data on your smartphone. Scan the applicable QR code below or search for WeatherLink on iTunes or the Google Play Store.

6556 WeatherLink iPhone App

6557 WeatherLink Android App

Three ways to join the WeatherLink Network:

WeatherLinkIP

You can post your weather data directly to WeatherLink.com without a PC using WeatherLinkIP. Simply plug the data logger into the back of your Vantage Pro2 or Vantage Vue console, or Weather Envoy and connect the cable to your cable/DSL/wireless broadband router. Within minutes, you'll be able to see your weather data live on the Internet. WeatherLinkIP uploads your data automatically even when your PC is not running—in fact, a PC is not even required to upload data! **Not compatible with Envoy8X. A router or hub and Internet service is required. No annual subscription required.**

6555 WeatherLinkIP

WeatherLink Network Annual Subscription*

for WeatherLink Serial and USB Data Loggers. Makes any Davis weather station (including classic Vantage Pro, Monitor, Wizard and Perception stations) into a WeatherLink.com station. With the annual subscription, your weather data is automatically uploaded to WeatherLink.com as long as your computer is on, and the software is running. **Not compatible with Envoy8X. Requires a PC, WeatherLink v6.0 (upgrade for free on www.davisnet.com/support/weather/downloads) and Internet service. Not required for WeatherLinkIP or Vantage Connect.**

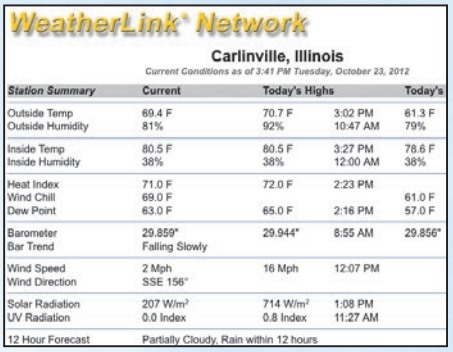
6558 WeatherLink Network Annual Subscription

NEW **6559 WeatherLink Network 3-year Subscription**

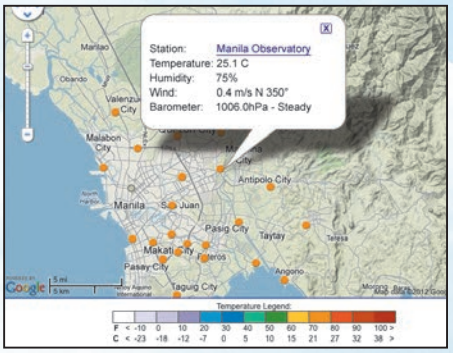
Vantage Connect

A WeatherLink Network page is included with the purchase of the Vantage Connect. For more details, see page 12.

See it now at www.WeatherLink.com


WeatherLink Network
Carlinville, Illinois
Current Conditions as of 3:41 PM Tuesday, October 23, 2012
Station Summary | Current | Today's Highs | Today's
Outside Temp 69.4 F | 70.7 F | 3:02 PM | 61.3 F
Outside Humidity 81% | 92% | 10:47 AM | 79%
Inside Temp 80.5 F | 80.5 F | 3:27 PM | 78.6 F
Inside Humidity 38% | 38% | 12:00 AM | 38%
Heat Index 71.0 F | 72.0 F | 2:23 PM
Wind Chill 69.0 F | 61.0 F
Dew Point 63.0 F | 65.0 F | 2:16 PM | 57.0 F
Barometer 29.859" | 29.944" | 8:55 AM | 29.856"
Bar Trend Falling Slowly
Wind Speed 2 Mph | 16 Mph | 12:07 PM
Wind Direction SSE 156°
Solar Radiation 207 W/m² | 714 W/m² | 1:08 PM
UV Radiation 0.0 Index | 0.8 Index | 11:27 AM
12 Hour Forecast Partially Cloudy, Rain within 12 hours

See your weather data on your private page from any Internet-connected computer.



© 2014 Google

Click on stations worldwide to see a summary of current conditions.

WeatherLink Network
Savines le Lac, France
12°
HIGH 21°C at 11:31
LOW 9°C at 04:15
Wind Calm High Gust 14 km/h at 04:29
Humidity 81% Feels Like 12°C
Rain 0.3mm Seasonal Total 621.0mm
Barometer 1025.3mb Rising Slowly

See detailed, current weather data for any station worldwide.

Integrated Pest Management Modules

Integrated Pest Management Modules (IPM) link your weather data to actual pest risk, giving you a powerful new tool in protecting your crops from pest damage. These add-on modules generate stepped risk levels to warn you when conditions are most susceptible to pest development. For full use of all the modules, we recommend:

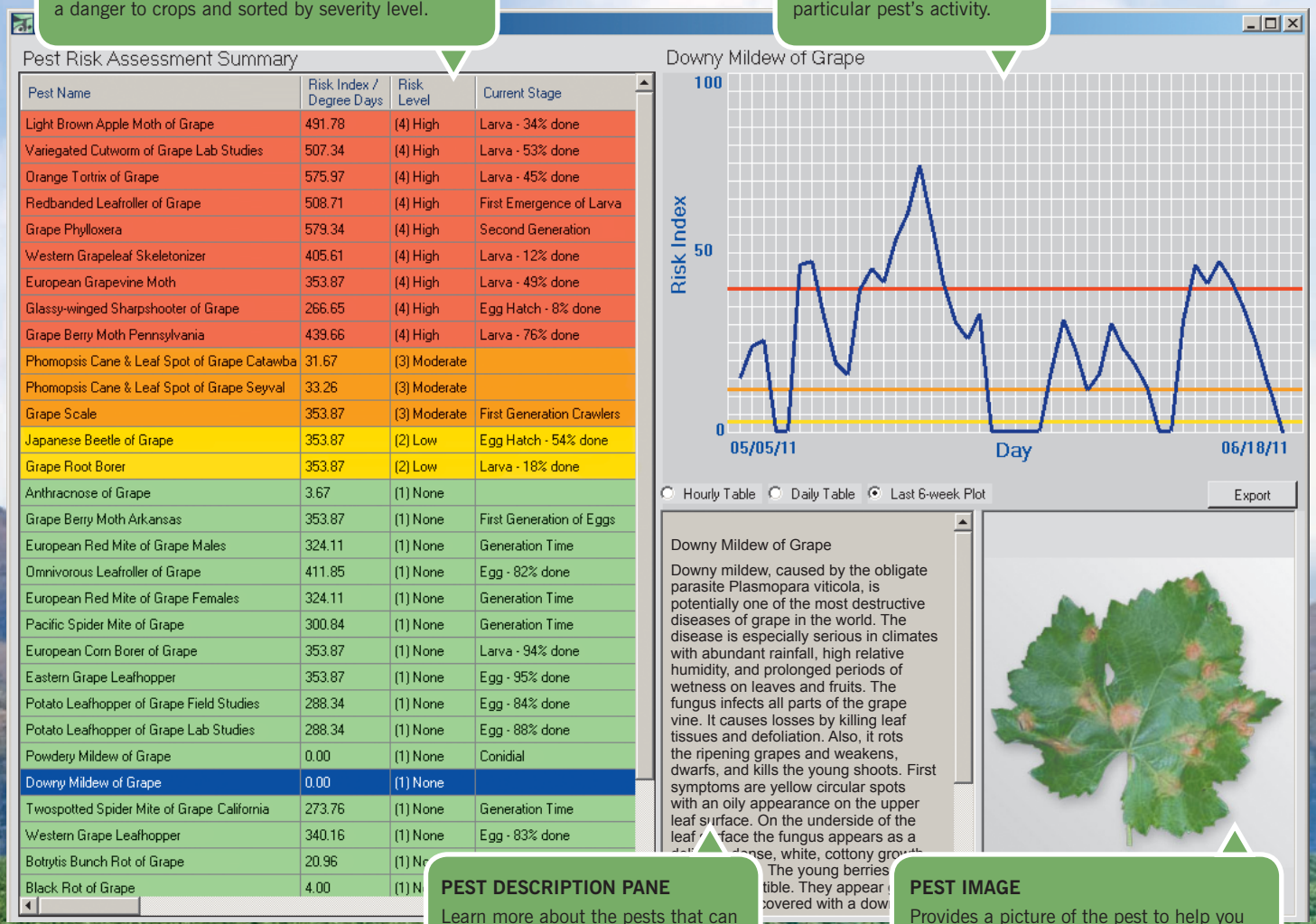
- Vantage Pro2 or Pro2 Plus Weather Station
- Wireless Leaf & Soil Moisture/Temperature Station (without sensors)
- Leaf Wetness Sensor
- WeatherLink for Windows
- Vantage Connect for remote access to your weather data

While each software comes loaded with pest models for all known pests (including diseases, insects and mites), you can completely customize your IPM software to track the pests specific to your area. That data is transformed into a color-coded spreadsheet, illustrating the highest risk potentials in red. Because you use real-time data from your own vineyard or orchard weather sensors, the software's updated pest development algorithms will provide you with the most accurate, crop-specific risk assessment available. For use with all WeatherLink models (Mac excluded).

6571 Integrated Pest Management Module for Grapes
6572 Integrated Pest Management Module for Apples & Pears
6573 Integrated Pest Management Module for Stone Fruits
6574 Integrated Pest Management Module for Nut Trees

PEST RISK ASSESSMENT SUMMARY
Color-coded to identify which pests currently pose a danger to crops and sorted by severity level.

DATA PANE
Displays last 6 weeks of a particular pest's activity.

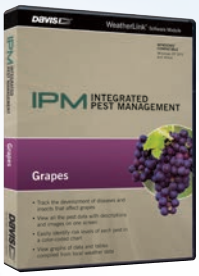

Pest Risk Assessment Summary
Pest Name | Risk Index / Degree Days | Risk Level | Current Stage
Light Brown Apple Moth of Grape | 491.78 | (4) High | Larva - 34% done
Variegated Cutworm of Grape Lab Studies | 507.34 | (4) High | Larva - 53% done
Orange Tortrix of Grape | 575.97 | (4) High | Larva - 45% done
Redbanded Leafroller of Grape | 508.71 | (4) High | First Emergence of Larva
Grape Phylloxera | 579.34 | (4) High | Second Generation
Western Grapeleaf Skeletonizer | 405.61 | (4) High | Larva - 12% done
European Grapevine Moth | 353.87 | (4) High | Larva - 49% done
Glassy-winged Sharpshooter of Grape | 266.65 | (4) High | Egg Hatch - 8% done
Grape Berry Moth Pennsylvania | 439.66 | (4) High | Larva - 76% done
Phomopsis Cane & Leaf Spot of Grape Catawba | 31.67 | (3) Moderate |
Phomopsis Cane & Leaf Spot of Grape Seyval | 33.26 | (3) Moderate |
Grape Scale | 353.87 | (3) Moderate | First Generation Crawlers
Japanese Beetle of Grape | 353.87 | (2) Low | Egg Hatch - 54% done
Grape Root Borer | 353.87 | (2) Low | Larva - 18% done
Anthracnose of Grape | 3.67 | (1) None |
Grape Berry Moth Arkansas | 353.87 | (1) None | First Generation of Eggs
European Red Mite of Grape Males | 324.11 | (1) None | Generation Time
Omnivorous Leafroller of Grape | 411.85 | (1) None | Egg - 82% done
European Red Mite of Grape Females | 324.11 | (1) None | Generation Time
Pacific Spider Mite of Grape | 300.84 | (1) None | Generation Time
European Corn Borer of Grape | 353.87 | (1) None | Larva - 94% done
Eastern Grape Leafhopper | 353.87 | (1) None | Egg - 95% done
Potato Leafhopper of Grape Field Studies | 288.34 | (1) None | Egg - 84% done
Potato Leafhopper of Grape Lab Studies | 288.34 | (1) None | Egg - 88% done
Powdery Mildew of Grape | 0.00 | (1) None | Conidial
Downy Mildew of Grape | 0.00 | (1) None |
Twospotted Spider Mite of Grape California | 273.76 | (1) None | Generation Time
Western Grape Leafhopper | 340.16 | (1) None | Egg - 83% done
Botrytis Bunch Rot of Grape | 20.96 | (1) No
Black Rot of Grape | 4.00 | (1) N
Downy Mildew of Grape
100
50
0
Risk Index
05/05/11
Day
06/18/11
Hourly Table
Daily Table
Last 6-week Plot
Export
Downy Mildew of Grape
Downy mildew, caused by the obligate parasite Plasmopara viticola, is potentially one of the most destructive diseases of grape in the world. The disease is especially serious in climates with abundant rainfall, high relative humidity, and prolonged periods of wetness on leaves and fruits. The fungus infects all parts of the grape vine. It causes losses by killing leaf tissues and defoliation. Also, it rots the ripening grapes and weakens, dwarfs, and kills the young shoots. First symptoms are yellow circular spots with an oily appearance on the upper leaf surface. On the underside of the leaf face the fungus appears as a
The young berries
tible. They appear
covered with a dow

PEST DESCRIPTION PANE
Learn more about the pests that can potentially damage your crop.

PEST IMAGE
Provides a picture of the pest to help you easily identify it when you are in the field.

REQUIRES: *Vantage Pro2 or Vantage Pro2 Plus with a Wireless Leaf & Soil Moisture/Temperature Station and Leaf Wetness Sensor; and WeatherLink for Windows (any model), version 5.6 or later. Windows XP SP3 or above. Compatible with Weather Envoy and Envoy8X.*

IPM for Grapes



DISEASES
- Anthracnose
- Black Rot
- Botrytis Bunch Rot
- Downy Mildew
- Phomopsis Cane & Leaf Spot
- Powdery Mildew

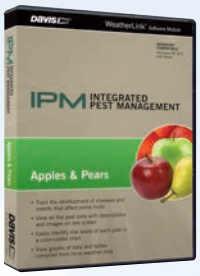
PREDICTS 21 INSECTS AND MITES:
- Eastern Grape Leafhopper
- European Corn Borer
- European Grapevine Moth
- European Red Mite
- Glassy-winged Sharpshooter
- Grape Berry Moth
- Grape Phylloxera
- Grape Root Borer
- Grape Scale
- Japanese Beetle
- Light Brown Apple Moth
- Omnivorous Leafroller
- Orange Tortrix
- Pacific Spider Mite
- Potato Leafhopper
- Redbanded Leafroller
- Twospotted Spider Mite
- Variegated Cutworm
- Vine Mealybug
- Western Grape Leafhopper
- Western Grapeleaf Skeletonizer

IPM for Stone Fruits

DISEASES AND MODELS EMPLOYED
- American Brown Rot
- Cherry Leaf Spot
- European Brown Rot
- Peach Leaf Curl
- Powdery Mildew of Cherry
- Prune Rust
- Shot Hole of Cherry and Peach
- Phenology Model of Peach, Plum & Prune, Nectarine, Apricot and Sweet Cherry Trees

PREDICTS 18 INSECTS AND MITES:
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Green Peach Aphid
- Japanese Beetle
- Lygus Bug
- Obliquebanded Leafroller
- Omnivorous Leafroller
- Orange Tortrix
- Oriental Fruit Moth
- Pacific Spider Mite
- Peach Twig Borer
- Peachtree Borer
- Plum Curculio
- Plum Fruit Moth
- San Jose Scale
- Twospotted Spider Mite
- Western Cherry Fruit Fly

IPM for Apples & Pears



DISEASES AND MODELS EMPLOYED
- 4 Apple Scab Models (Ascospore Maturity, Modified Mills Table & Revised Mills Table, A-Scab)
- 3 Fire Blight Models (CougarBlight, Maryblyt, Billings Integrated System)
- 2 Sooty Blotch & Flyspeck Models (Brown & Sutton, Cool Climate)
- Powdery Mildew of Apple
- Brown Spot of Pear
- Cedar Apple Rust
- Black Rot of Apple (Leaf & Fruit)
- Phenology Model of Apple Tree

PREDICTS 22 INSECTS AND MITES:
- Apple Maggot
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Green Apple Aphid
- Japanese Beetle
- Light Brown Apple Moth
- Lygus Bug
- Mediterranean Fruit Fly
- Obliquebanded Leafroller
- Omnivorous Leafroller
- Orange Tortrix
- Oriental Fruit Moth
- Pacific Spider Mite
- Pandemis Leafroller
- Potato Leafhopper
- Redbanded Leafroller
- San Jose Scale
- Spotted Tentiform Leafminer
- Tufted Apple Bud Moth
- Twospotted Spider Mite
- White Apple Leafhopper

IPM for Nut Trees

DISEASES PREDICTED & MODELS EMPLOYED
- Alternaria Leaf Spot of Almond
- Anthracnose of Almond
- Panicle and Shoot Blight of Pistachio
- Pecan Scab
- Walnut Blight

INSECTS & MITES PREDICTED
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Lygus Bug
- Navel Orangeworm
- Obliquebanded Leafroller
- Oriental Fruit Moth
- Pacific Spider Mite
- Peach Twig Borer
- Peachtree Borer
- San Jose Scale
- Twospotted Spider Mite
- Walnut Husk Fly

Add-on modules for WeatherLink

Agricultural/Turf Management Software Module

Optional software module adds specialized reports for farmers, growers and turf managers with user-defined growing season and 24-hour period. Software reports:

- Evapotranspiration
- Chilling requirements
- Leaf wetness and soil temperature hours
- Growing degree-days
- Temperature-humidity hours
- Crop water management (with irrigation values and user-entered K-factor profiles)

For use with all WeatherLink models (except Mac version). Some reports require the use of optional sensors (e.g. temperature probes, leaf wetness sensor, etc.). Evapotranspiration reports require data from a solar radiation sensor.

6511 Agricultural/Turf Management Module

E-Mail/Phone Alert Software Module

Be alerted whenever conditions approach critical—24/7. Choose e-mail for detailed information on alarm conditions plus regularly scheduled updates on current weather conditions. Use the alert to send a text to your cell phone.

For use with all WeatherLink models (Mac excluded). Because systems vary, the phone alert may not work outside the USA.

6512 E-Mail/Phone Alert Module

Critical real-time data right when you need it

WeatherLink for Alarm Output with Connector Block

Now you can automatically turn heaters, fans and other devices on or off using your weather station. For each of four outputs, you can enter up to eight different weather parameters. Enter threshold values for each, select from nine different test conditions, and link the entries together as you choose. For example, you could activate a fan to cool your house—but only if the difference between the inside and outside temperatures is more than 5°F, it's more than 72°F inside and it's between 5:00 p.m. and 6:00 a.m. Our connector block provides the interface between your weather station and an electrical device. For high-power devices, you may also need to add electrical relays (not supplied by Davis). Connection to a PC is not required except for initial setup.

6544 WeatherLink for Alarm Output

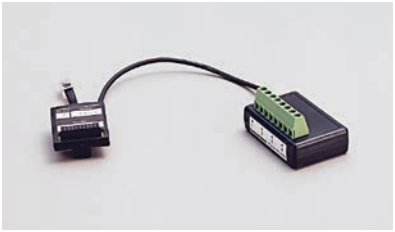
WeatherLink for Irrigation Control with Connector Block

Use your weather station to turn your irrigation system on or off automatically. Connector block connects directly to many irrigation systems. For industrial controllers, provides electronic pulses for wind, rain, and ET. For homeowners, looks at rain and ET values to determine when to inhibit watering. Can also set console alarms to inhibit watering when temperatures are too low or winds are too high. ET monitoring requires solar radiation sensor. Connection to a PC is not required except for initial setup.

6560 WeatherLink for Irrigation Control

WeatherLink for Emergency Response Teams with Streaming Data Logger and CAMEO link

For use with the free CAMEO (Computer-Aided Management of Emergency Operations) software developed by NOAA and the EPA. With Vantage Pro2, Vantage Vue or Weather Envoy, provides the real-time weather data needed to map the footprint of a hazardous plume, predict its dispersion and help make critical public safety decisions—all at just a fraction of the cost of other systems. For more about CAMEO, visit www.epa.gov/emergencies/content/cameo/index.htm.



6550 WeatherLink for Emergency Response Teams

WeatherLink for APRS with Streaming Data Logger

For ham radio operators, including storm chasers and volunteer weather watchers. Connects a Vantage Pro2 console, Vantage Vue console or Weather Envoy to a ham radio with TNC modem for instant transmission of both your location and the local weather conditions via APRS. Connection to a PC is not required except for initial setup.

6540 WeatherLink for APRS

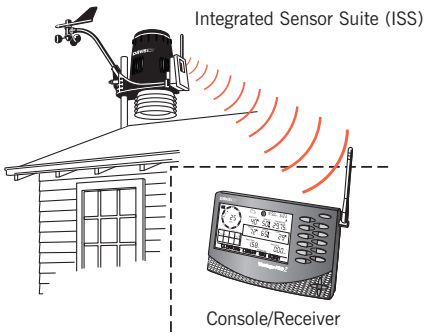
Choose the WeatherLink model that suits your needs

To get the most out of WeatherLink, choose the model that's right for you. All share the powerful weather data logging and reporting features discussed on page 18, while some add special features designed for specific user groups.

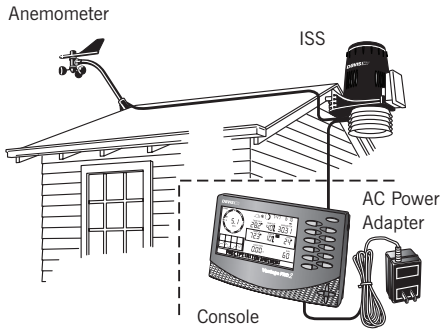
Extra User License Kit includes software on CD and extra user license.

SYSTEM REQUIREMENTS	MODEL	FOR USE WITH	DESIGNED FOR	NOTES	EXTRA USER LICENSE KIT
Windows, USB Windows XP and above	6510USB	Vantage Pro2, Vantage Vue, Weather Envoy or Envoy8X	General Purpose	For PCs with USB connections.	6510X
Windows, Serial Windows XP and above	6510SER	Vantage Pro2, Vantage Vue, Weather Envoy or Envoy8X	General Purpose	For PCs with serial port connections.	6510X
All models with streaming data loggers or connector blocks include all our normal WeatherLink features, plus additional features designed for special purposes. To download one of these models via USB, add our # 8434 USB-to-Serial Cable	6540	Vantage Pro2, Vantage Vue or Weather Envoy	APRS (Ham Radio)	Connects to a ham radio with TNC modem for instant streaming transmission of both your location and the local weather conditions via APRS (Automatic Packet Reporting System).	6510X
	6544	Vantage Pro2, Vantage Vue or Weather Envoy	Alarm Output	Use to turn heaters, fans or other devices on or off depending on weather conditions. (For high-power devices, you may also need to add electrical relays.) Includes connector block.	6510X
	6550	Vantage Pro2, Vantage Vue or Weather Envoy	Emergency Response	For use with the free CAMEO software developed by NOAA and the EPA (not included). Provides streaming weather data to map a hazardous plume and predict its dispersion.	6510X
	6560	Vantage Pro2, Vantage Vue or Weather Envoy	Irrigation Control	Connects to many irrigation systems. Provides electronic pulses for wind, rain, and ET, or uses the alarm settings in the console. Includes connector block.	6510X
Internet DSL or cable connection and router with free ethernet port. Windows XP and above	6555	Vantage Pro2, Vantage Vue or Weather Envoy	Internet Updates	View downloaded data on your own weather website and be part of the WeatherLinkIP community.	6510X
Mac Mac OS X v 10.1 or above, Intel Mac Compatible	6520	Vantage Pro2, Vantage Vue or Weather Envoy	General Purpose	Does not log data from leaf wetness, soil moisture, solar radiation or UV sensors. Does not include Citizen Weather Observer or GLOBE capabilities. May not be used with E-Mail/Phone Alert or Agricultural/Turf Management Modules.	6520X

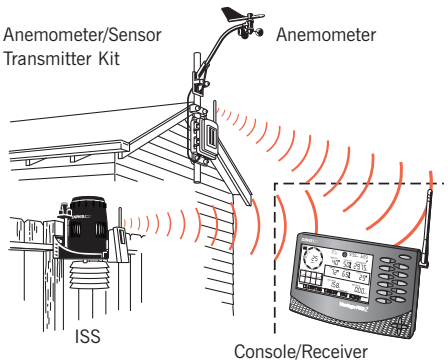
WIRELESS VANTAGE PRO2



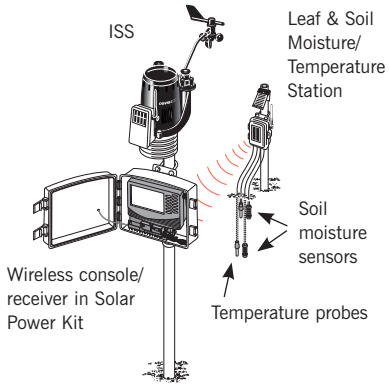
REMOTE ANEMOMETER (CABLED SYSTEM)

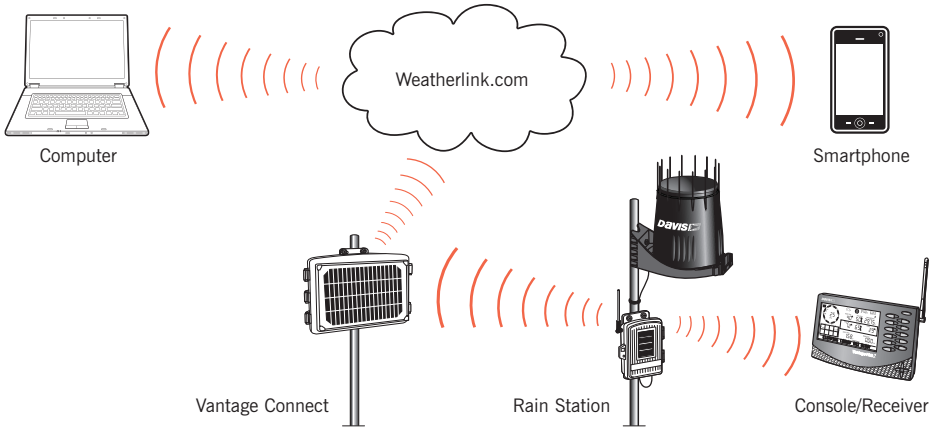


ANEMOMETER/SENSOR TRANSMITTER KIT

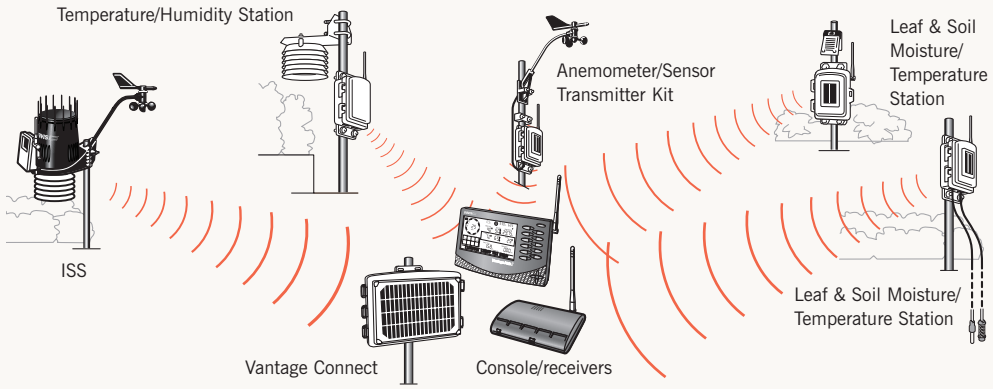


FIELD STATION SHOWING SOLAR POWER KIT & SOIL MOISTURE SENSORS





MAXIMUM NUMBER OF EACH STATION TYPE (TOTAL # OF STATIONS CANNOT EXCEED 8)						
Transmitting Station	**Shown on Console**					**Logged by WeatherLink**
	Vantage Pro2	**Vantage Vue**	**Weather Envoy**	**Envoy8X**	**Vantage Connect**	
Integrated Sensor Suite (ISS)	1	1	1	8	1	1
Anemometer/Sensor Transmitter Kit	1 †	0	1	8	1	1 †
Leaf & Soil Moisture/Temperature Station	2 *	0	1	8	1	2 *
Temperature Station	8	0	3	8	3	3 **
Temperature/Humidity Station	8	0	2	8	2	2 **
Rain Station	1	1	1	8	1	1



Each Vantage Pro2, Weather Envoy, Envoy8X and Vantage Connect console/receiver can receive data from up to eight different transmitting stations.

* One fully-populated station or two partially-populated stations.

** WeatherLink will log a maximum of:
A) three Temperature Stations or
B) two Temperature Stations and one Temperature/Humidity Station or
C) one Temperature Station and two Temperature/Humidity Stations.

† System can only listen to one anemometer at a time. If an anemometer is used with your ISS, then the anemometer on the anemometer/sensor transmitter kit will not register.

How Will You Use Your Weather Station?

Davis weather stations are used around the world to keep weather observers informed. While real user stories are highlighted in our Davis E-Newsletter, we've created a few examples to give you an idea of the many ways you can create the perfect weather system.

The Weather Buff

He loves to watch the weather and over the years has installed more than one drugstore thermometer on his patio. He wanted a high quality weather station that could give him accurate readings on wind, temperature, humidity, barometer and rain; all displayed clearly on a console—while staying within his budget. He was impressed with how simple Vantage Vue was to install and with all the information it provided on the console—historical data, forecast icons, and graphs—and the Weather Center's extra information. He added WeatherLinkIP and learned how simple it was to upload his data to the Internet.

- Affordable
- Easy to install
- Add WeatherLinkIP for simple online sharing
- Can download data from WeatherLinkIP for NOAA and CWOP reporting

THE BUFF'S SYSTEM
Vantage Vue, 6250
Mounting Pole Kit, 7717
WeatherLinkIP, 6555
ON HIS WISH LIST
Additional console for the garage, 6351
TOTAL PRICE: Contact dealer

The Professional Weather Watcher

He is serious about the weather. He wanted weather readings that could be reported to NOAA and CWOP. He chose the Vantage Pro2 system so that he could mount the anemometer on a 30 feet (nine meters) tower while keeping his rain and other sensors at six feet (two meters). He knew a Davis weather station would be durable—a very important fact because he lives where summers are hot, winters are snowy and the hurricane-force winds are a late summer highlight. He chose the Vantage Pro2 with 24-hour Fan-Aspirated Radiation Shield and added a Rain Collector Heater. Living where weather can do some serious damage, he wanted to help his community prepare for severe weather via his website and his ham radio, so he added WeatherLinkIP. He wanted to see his data in the living room as well as in his radio shack, so he added a Vantage Vue console. He also wanted to monitor the temperature of the pond that is 1500 feet (457,2 meters) from his back deck, so the latest addition to his system was a wireless Temperature/Humidity Station and a standard wireless repeater.

- Separable sensors for greatest wind accuracy and professional siting
- Ability to add special-purpose stations
- UV and Solar sensors available
- Can download data from WeatherLinkIP for NOAA and CWOP reporting

THE PRO'S SYSTEM
Vantage Pro2 with 24-Hour Fan-Aspirated Shield, 6153
Mounting Tripod, 7716
Mounting Pole Kit, 7717
WeatherLinkIP, 6555
Rain collector heater, 7720
Wireless Temperature Station, 6372
Standard Wireless Repeater, solar powered, 7627
Vantage Vue console, 6351
ON HIS WISH LIST
Solar and UV Radiation Sensors with shelf, 6450, 6490, & 6673
TOTAL PRICE: Contact dealer

The Vintners

They found the perfect vineyard on a rolling hillside and sank their savings into the dream of raising grapes and producing award-winning wines. Even though their climate, with its foggy, cool summers, mild winters and infrequent frosts is ideal, they still have to make the daily weather-based decisions that determine the success—or failure—of their crop. They needed real-time data from their own vineyard's micro-climate, which happens to be miles from their office; miles from anything, in fact. They chose a Vantage Pro2 Plus Integrated Sensor Suite and installed Vantage Connect to bring that remote station's data right into their office via a cellular connection. They use WeatherLink software to log and store data to use in future growing seasons. They added a Wireless Leaf and Soil Moisture/Temperature Station with one leaf wetness sensor, one soil moisture sensor and one soil temperature probe. This allows them to gather ET data for irrigation decisions and use the Integrated Pest Management Module for Grapes to track potential pest and disease risk. They dream of expanding their vineyard and adding weather stations in remote fields. They need the durability, accuracy and update speed of Davis stations; and the flexibility to grow and add on to their system offered by Vantage Connect.

- Full agricultural functionality
- Real-time data communicated via cellular connection from a remote station
- UV and solar sensors provide ET data for use in irrigation
- Integrated Pest Management Module includes ALL grape pests
- WeatherLink data archives enhance this and future growing seasons

THE VINTNER'S SYSTEM
Vantage Connect, 6620 or 6621
Vantage Pro2 Plus with 24-Hour Fan-Aspirated Radiation Shield ISS, 6328
Wireless Leaf & Soil Moisture/ Temperature Station, 6345
Leaf Wetness Sensor, 6420
Soil Moisture Sensor, 6440
Stainless Steel Temperature Probe with 2-Wire Termination, 6470
Integrated Pest Management Module for Grapes, 6571
Vantage Connect Service Plan with 15-minute update interval, 6634
Mounting tripod, 7716
ON THEIR WISH LIST
A really good growing season
TOTAL PRICE INCLUDING ANNUAL SERVICE PLAN AND VANTAGE CONNECT HARDWARE ONE-TIME ACTIVATION FEE: Contact dealer

The Wind Researcher

She's a researcher overseeing graduate students who are studying wind energy. Her team needed wind data from several sites to see how wind moves through the campus. Her colleagues were also interested in temperature and humidity. She started with a Vantage Pro2 on the roof of the biology building, and wanted to add two Vantage Vue integrated sensor suites on buildings nearby. Rather than log data using three consoles, our researcher chose Envoy8X. She still uses her Vantage Pro2 console to follow the weather on the biology building. Adding the Envoy8X allows her to listen to any combination of eight integrated sensor suites and anemometers and use a WeatherLink data logger and the commercial grade database software included with Envoy8X to easily compile her data into one database. With Envoy8X, our researcher not only added the two Vantage Vue integrated sensor suites, she installed five additional anemometers with Anemometer/Sensor Transmitting Kits. With data coming from around the campus, she added a long-range repeater so that all eight stations are logged by the one Envoy8X. Now she has one database with data from all the anemometers plus the additional sensor data from the three integrated sensor suites—just what her team needed.

- Track eight stations, including multiple anemometers and integrated sensor suites
- Flexibility to handle radio transmission obstacles
- Envoy8X software with commercial grade database capabilities
- Ability to use third-party sensors
- Ability to add additional Envoy8Xs

THE RESEARCHER'S SYSTEM
Vantage Pro2, 6153
Envoy8X, 6318
WeatherLink Software, 6510USB
2 Vantage Vue Integrated Sensor Suites, 6357
5 Anemometer/Sensor Transmitting Kits, 6332
5 Anemometers, 6410
Long-Range Repeater, Solar-Powered, 7654
Omni Antenna, 7656
Yagi Antenna, 7660
ON HER WISH LIST
Another Envoy8X for more anemometers
TOTAL PRICE: Contact dealer

Vantage Console Features

- Vantage Pro2 and Vantage Vue
- Vantage Pro2 only
- Vantage Vue only

	BAR	HUMIDITY			RAIN			TEMPERATURE				WIND			WITH OPTIONAL SENSORS								
	Barometric Pressure	Inside Humidity	Outside Humidity	Dew Point	Rainfall Amount	Rain Storm Amount	Rain Rate	Inside Temperature	Outside Temperature	Heat Index	Wind Chill	Wind Speed	Wind Direction	Direction of High Speed	Evapotranspiration	Humidity (Extra)	Leaf Wetness	Soil Moisture	Solar Radiation	Temperature (Extra)	Temp-Hum-Sun-Wind	UV Radiation	UV MEDs
Update Interval*	1 min	1 min	50 sec	10 sec	20 sec	20 sec	20 sec	1 min	10 sec	10 sec	10 sec	2.5 sec	2.5 sec	2.5 sec	1 hour	50 sec	1 min	80 sec	50 sec	10 sec	10 sec	50 sec	50 sec
CONSOLE DISPLAYS																							
Reading at end of update interval	●	●	●	●				●	●	●	●		●			●	●	●	●	●	●	●	
Total amount for the interval					●	●									●								●
Average reading for the interval												●											
High reading for the interval							●																
SET ALARMS for																							
Special Alarms	1				2	3						4			5								6
High Reading		●	●	●			●	●	●	●		●				●	●	●	●	●	●	●	
Low Reading		●	●	●				●	●		●					●	●	●		●			
DISPLAYED but not graphed																							
Current Year High	●	●	●	●				●		●		●		●		●	●	●		●			
Current Year Low	●	●	●	●				●			●					●	●	●		●			
GRAPHED & DISPLAYED for last 24 hrs of each of the following (25 hrs for Vantage Vue)																							
EOP: End-of-15-Minute Period Readings	●																						
EOP: End-of-Hour Period Readings	●	●	●	●				●	●	●							●	●			●		
TOTALS: 15-minute Period Totals					●																		
TOTALS: Hourly Totals					●										●								●
TOTALS: Daily Totals					●										●								●
TOTALS: Monthly Totals					●										●								
TOTALS: Storm Totals (with start & end date)						●																	
TOTALS: Yearly Totals					●										●								
AVERAGES: 10-Minute Averages (2 min. for VV)												●											
AVERAGES: Hourly Averages or Dominant												●	●						●			●	
AVERAGES: Daily Averages or Dominant													●	●									
AVERAGES: Monthly Averages or Dominant													●	●									
AVERAGES: Yearly Averages														●									
HIGHS: One-Minute Highs							●																
HIGHS: Hourly Highs							●					●											
HIGHS: Daily Highs	●	●	●	●			●	●	●	●		●					●	●	●		●	●	
HIGHS: Monthly Highs	●	●	●	●			●	●	●	●		●					●	●	●		●	●	
HIGHS: Yearly Highs							●		●			●											
LOWS: Hourly Lows											●												
LOWS: Daily Lows	●	●	●	●				●	●		●						●	●					
LOWS: Monthly Lows	●	●	●	●				●	●		●							●					
LOWS: Yearly Low									●														

*Update interval may vary depending on station ID and type of station.

SPECIAL ALARMS

1 **Storm Warning:** Amount of barometric pressure fall.
Storm Clearing: Amount of barometric pressure rise.
2 **Flash Flood Warning:** 15-minute rainfall amount.
24-hour Rain Alarm: 24-hour rainfall amount.
3 **Rainstorm Alarm:** Rainfall amount for current storm.
4 **High Wind Speed and 10-Minute Average Wind Speed Alarms**
5 **Daily Evapotranspiration Amount Alarm**
6 **Daily UV Dose Alarm**

The GLOBE Program

Students of all ages can now participate in the worldwide GLOBE program using protocols developed just for Davis weather stations. See www.globe.gov for details.

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NIST-Traceable Sensors

In the USA, the National Institute of Standards & Technology (NIST) develops and maintains the standards of measurement to which all others are ultimately traced. Numerous calibrations, tests and measurement assurance programs are delivered directly to approximately 10,000 companies. From these companies, NIST-traceable intermediate service providers are the next link in a network that joins together the makers and users of precision instruments.

Davis Instruments is proud to provide this calibration service in our California factory utilizing NIST-traceable references for those customers who require it. For users who require this additional service, calibration of new and previously owned sensors is available. For the cost of individual sensors, please contact us for pricing.

Anemometers are wind-tunnel tested in our California factory.

Function		Vantage Vue	Vantage Pro2	USA Units			Metric Units	Except for rainfall, all variables are measured in US units of measure and rounded to the nearest metric unit shown in the Resolution column.	
				RESOLUTION	RANGE	ACCURACY ±	RESOLUTION*	RANGE	ACCURACY ±
AGRICULTURAL	Evapotranspiration		●	0.01"	0 to 199.99"	5%	0,1 mm	0 to 1999,9 mm	5%
	Growing Degree-Days		❍	0.1 Degree-Day	Unlimited		0,1 Degree-Day	Unlimited	
	Cooling/Heating Degree-Days	✔	❍	0.1 Degree-Day	Unlimited		0,1 Degree-Day	Unlimited	
	Leaf Wetness		●	1	0 to 15	0.5	1	0 to 15	0.5
	Soil Moisture		●	1 cb	0 to 200 cb		1 cb	0 to 200 cb	
BAROMETRIC PRESSURE	Barometric Pressure (Elevation range: -999' to +15,000'; -600 to +4570 m)	✔	✔	0.01" Hg	16" to 32.5" Hg	0.03" Hg	0,1 mm Hg 0,1 mb	410 to 820 mm Hg 540 to 1100 mb or hPa	0,8 mm Hg 1,0 mb or hPa
	Three-Hour Trend	✔	✔	Slow ≥ 0.02" Hg Rapid ≥ 0.06" Hg	5-Position Arrow		Slow ≥ 0,5 mm (0,7 mb) Rapid ≥ 1,5 mm (2 mb)	5-Position Arrow	
HUMIDITY	Inside Humidity	✔	✔	1%	1% to 100%	3%	1%	1% to 100%	3%
	Outside Humidity	✔	✔	1%	1% to 100%	3%	1%	1% to 100%	3%
	Inside Dew Point	❍	❍	0.1°F	–60° to +140°F	3°F	0,1°C	–50° to +60°C	1,5°C
	Outside Dew Point	✔	✔	1°F	–105° to +130°F	3°F	1°C	–76° to +54°C	1,5°C
RAINFALL	Rainfall	✔	✔	0.01"	0 to 199.99"	4%	0,2 mm	0 to 6553 mm	4%
	Rate of Rainfall		✔	0.01"/hr	0 to 96"/hr	5% ≤ 5"/hr	0,1 mm/hr	0 to 2438 mm/hr	5% ≤ 127 mm/hr
		✔			0 to 40"/hr			0 to 1016 mm/hr	
SOLAR & UV	Solar Radiation		●	1 W/m2	0 to 1800 W/m2	5%	1 W/m2	0 to 1800 W/m2	5%
	Solar Energy		❍	0.1 Ly	1999.9 Ly	5%	0,1 Ly	1999,9 Ly	5%
	UV Dose		●	0.1 MEDs	0 to 199 MEDs	5%	0,1 MEDs	0 to 199 MEDs	5%
	UV Index		●	0.1	0 to 16	5%	0,1	0 to 16	5%
TEMPERATURE	Inside Temperature	✔	✔	0.1°F	+32° to +140°F	1°F	0,1°C	0° to +60°C	0,5°C
	Outside Temperature (ISS)	✔	✔	0.1°F	–40° to +150°F	1°F	0,1°C	–40° to +65°C	0,5°C
	Outside Temp (Temp Station)		●	1°F	–40° to +150°F	1°F	1°C	–40° to +65°C	0,5°C
	Soil or Water Temperature		●	1°F	–40° to +150°F	1°F	1°C	–40° to +65°C	0,5°C
	Inside Heat Index	❍	❍	0.1°F	+30°F to +165°F	3°F	0,1°C	–1°C to +74°C	1,5°C
	Outside Heat Index	✔	✔	1°F	–40° to +165°F	3°F	1°C	–40° to +74°C	1,5°C
	Temp/Hum/Sun/Wind Index		●	1°F	–90° to +165°F	4°F	1°C	–68° to +74°C	2°C
	Wind Chill	✔	✔	1°F	–110° to +135°F	2°F	1°C	–79° to +57°C	1°C
TIME/DATE	Time	✔	✔	1 minute	12/24 hours	8 sec/mo	1 minute	12/24 hours	8 sec/mo
	Date	✔	✔	month/day	Leap Year	8 sec/mo	day/month	Leap Year	8 sec/mo
	Sunrise & Sunset	✔	✔	1 minute	12 hours	1 minute	1 minute	24 hours	1 minute
WIND	Wind Direction	✔	✔	1°	0° to 360°	3°	1°	0° to 360°	3°
	Compass Rose	✔	✔	22.5°	16 compass points		22,5°	16 compass points	
	Wind Speed	✔	✔	1 mph 1 knot	1 to 200 mph 1 to 174 knots	5%	0,1 m/s 1 km/hr	1 to 80 m/s 1 to 320 km/hr	5%
	Direction of High Speed	✔	✔	22.5°	16 compass points		22,5°	16 compass points	
	Wind Run	❍	❍	0.01 miles 0.01 nautical miles	Unlimited	5%	0,01 kilometers	Unlimited	5%

✔ Included
● Optional sensor required, shown on console
❍ Requires WeatherLink.
Growing degree-days also requires Ag/Turf Management Module. Solar Energy requires Solar Radiation sensor.

*Resolution refers to the number of digits or decimal places displayed on the console. For metric units, this is not the actual unit of measure except for rainfall. Our rain collector measures in true 0.01" or 0,2 mm increments. All other weather variables are measured and accumulated in US units of measure, which are then converted to metric units for display purposes.

For complete specifications, visit our website at www.davisnet.com, then click on Support » Weather Support » Specification Sheets.

Which sensors can you use with your transmitter?

See pages 11 and 23 for the maximum number of transmitters that can report to a single Vantage Pro2 console/receiver, Weather Envoy or Envoy8X.

● Included
● Optional
4 Maximum sensors for that transmitter

		Product No.	WIRELESS TRANSMITTERS: 6250 Vantage Vue / 6357 Vantage Vue ISS	6152 Vantage Pro2 / 6322 Vantage Pro2 ISS	6153 Vantage Pro2 with Fan-Aspirated Rad Shield / 6323 Vantage Pro2 ISS with Fan-Aspirated Rad Shield	6162 Vantage Pro2 Plus / 6327 Vantage Pro2 Plus ISS	6163 Vantage Pro2 Plus with Fan-Aspirated Rad Shield / 6328 Vantage Pro2 Plus ISS with Fan-Aspirated Rad Shield	6334 Vantage Pro2 with Solar Radiation Sensor	6345 Leaf Wetness & Soil Moisture/Temp Station w/o sensors	6345CS Complete Soil Moisture/Temp Station	6372 Temperature Station	6382 Temperature/Humidity Station	6332 Anemometer/Sensor Transmitter Kit
Sensor Options and Accessories	Integrated Rain Collector	--	●	●	●	●	●	●					
	Rain Collector	7852											●
	Integrated Anemometer	--	●										
	Detachable Anemometer	6410		●	●	●	●	●					●
	Integrated Temperature/Humidity	--	●	●	●	●	●	●				●	
	Stainless Steel Temperature Probe with 2-Wire Termination	6470							4	4			
	Temperature Probe with RJ Connector*	6477											●
	Stainless Steel Temperature Probe with RJ Connector*	6475									●		●
	Passive Radiation Shield	7714	●	●		●			●	●	●	●	●
	Daytime Fan-Aspirated Radiation Shield	7747		●		●		●				●	
	24-Hour Fan-Aspirated Radiation Shield	--			●		●						
	Solar Radiation Sensor	6450			●	●	●	●					●
	UV Radiation Sensor	6490			●	●	●	●					●
	Sensor Mounting Shelf for UV/Solar	6673			●	●	●	●					
	Leaf Wetness Sensor	6420							2	2			
	Soil Moisture Sensor	6440							4	4			
	Third-Party Sensors (reporting 0-3 volt DC, Envoy8X required)	--		●	●	●	●	●	●	●			●

*Can also be used with Weather Envoy and Envoy8X to replace the internal temperature sensor.

Current Draw & Battery Life*		Current Draw in Milliamperes: Lights Off	Lights On	With Data Logger: Standard	Streaming	WeatherLinkIP	Estimated Backup Battery Life in Days*: Without Data Logger	With Data Logger: Standard	Streaming	WeatherLinkIP	80 Amp Hour 6-Volt Battery Life at Normal Temperatures: Without Data Logger	With Data Logger: Standard	Streaming	WeatherLinkIP
Vantage Vue Console/Receiver		1	160	1	3	101	9 months	9 months	3 months	2 days	9 years	9 years	3 years	30 days
Vantage Pro2	Wireless	1	160	1	3	101	9 months	9 months	3 months	2 days	9 years	9 years	3 years	30 days
	Cabled	10	170	10	13	110	27 days	27 days	21 days	2 days	9 months	9 months	8 months	30 days
Weather Envoy	Wireless	1	N/A	1	3	101	N/A	4 months	1 month	<1 day	N/A	9 years	3 years	30 days
	Cabled	10	N/A	10	13	110	N/A	10 days	8 days	<1 day	N/A	6 months	6 months	30 days
Envoy8X	1 ID	N/A	N/A	1	N/A	N/A	N/A	4 months	N/A	N/A	N/A	9 years	N/A	N/A
	4 IDs	N/A	N/A	1.6	N/A	N/A	N/A	2 months	N/A	N/A	N/A	4 years	N/A	N/A
	8 IDs	N/A	N/A	2.5	N/A	N/A	N/A	1 month	N/A	N/A	N/A	2.7 years	N/A	N/A

*Information based on premium alkaline batteries. Actual battery life will vary depending on station setup and usage. N/A = not applicable.

Which transmitters can you use with your receiver?

See pages 11 and 23 for the maximum number of transmitters that can report to a single Vantage Pro2 console/receiver, Weather Envoy or Envoy8X.

Included

Optional

Included but additional can be added

		Product No.	6250 Vantage Vue	6152 Vantage Pro2	6153 Vantage Pro2 with Fan-Aspirated Rad Shield	6162 Vantage Pro2 Plus	6163 Vantage Pro2 Plus with Fan-Aspirated Rad Shield	6316 Wireless Weather Envoy	6318 Envoy8X	6620 or 6621 Vantage Connect	6351 Vantage Vue Console only	6312 Vantage Pro2 Console only	6152C Vantage Pro2	6162C Vantage Pro2 Plus	6316C Cabled Weather Envoy
			SYSTEMS & RECEIVERS												
			WIRELESS										CABLED		
Wireless Options	Vantage Vue Console	6351	◔	●	●	●	●	●			●	●			
	Vantage Vue ISS	6357	●					●	●	●	●	●			
	Wireless Vantage Pro2 Console	6312	●	◔	◔	◔	◔	●			●	●			
	Wireless Vantage Pro2 ISS	6322		●				●	●	●	●	●			
	Wireless Vantage Pro2 ISS with 24-Hour Radiation Shield	6323			●			●	●	●	●	●			
	Wireless Vantage Pro2 ISS with UV-Solar	6327				●		●	●	●	●	●			
	Wireless Vantage Pro2 ISS with 24-Hour Radiation Shield & UV Solar	6328					●	●	●	●	●	●			
	Wireless Vantage Pro2 ISS with Solar Radiation Sensor	6334						●	●	●	●	●			
	Wireless Weather Envoy	6316	●	●	●	●	●	●			●	●			
	Wireless Leaf & Soil Moisture/Temperature Stations	6345		●	●	●	●	●	●	●		●			
	Complete Soil Moisture/Temperature Station	6345CS		●	●	●	●	●	●	●		●			
	Wireless Temperature Station	6372		●	●	●	●	●	●	●		●			
	Wireless Temperature/Humidity Station	6382		●	●	●	●	●	●	●		●			
	Anemometer/Sensor Transmitter Kit	6332		●*	●*	●*	●*	●*	●	●		●			
	Standard Wireless Repeater, AC-Powered	7626	●	●	●	●	●	●	●	●	●	●			
	Standard Wireless Repeater, Solar-powered	7627	●	●	●	●	●	●	●	●	●	●			
	Long-Range Wireless Repeater, Solar-Powered	7654	●	●	●	●	●	●	●	●	●	●			
	Solar Power Kit for Wireless (includes 1.4 amp hour 6-volt battery)	6614	●	●	●	●	●	●			●	●			
Cabled Options	Cabled Weather Envoy	6316C													●
	Cabled Vantage Pro2 ISS	6322C											●		●
	Cabled Vantage Pro2 ISS with UV & Solar	6327C												●	●
	Cabled Vantage Pro2 ISS with Solar Radiation Sensor	6334C					●	●	●	●	●				
	Heavy Duty Solar Power Kit (includes 12 amp hour 6-volt battery) **	6612	●	●	●	●	●	●	●		●	●	●	●	●
Installation Options	Rain Collector Heater	7720		●	●	●	●						●	●	
	Mounting Tripod	7716	●	●	●	●	●			●			●	●	
	Mounting Pole Kit	7717	●	●	●	●	●			●			●	●	
	Extra Solar Panel Kit ***	6616								●					
	Universal Shelter	6618	●	●	●	●	●	●	●		●	●	●	●	●
	Daytime Fan-Aspirated Radiation Shield	7747		●		●							●	●	
	Sensor Mounting Shelf	6673		●	●	●	●						●		

* Only when used as a separate transmitter for your station's anemometer.
** Can also be used on wireless stations when more power is needed.
*** Can be paired with 6612 and 6614.

Things to consider when purchasing a weather station

1. WHAT WEATHER VARIABLES ARE MEASURED AND RECORDED?
Most other stations offer barometric pressure, outside humidity and dew point, daily and yearly rainfall, wind speed and direction, wind chill and outside temperature. Some also offer inside temperature and humidity, and a few even give you extra outside temperatures and rain rate. Only Vantage Pro2 or Vantage Vue give you those features, plus:

- Additional Rainfall Information: 15-minute, hourly, monthly and yearly rainfall, and rainfall amounts for each of the last 24 storms.
- Additional Wind Speed Information: 10-minute average wind speed and dominant wind direction. In addition, with Vantage Vue, you get 2-minute average speed, high speed and direction in the last ten minutes.
- Apparent Temperature: Heat index, and with Vantage Pro2's optional solar radiation sensor, the temperature-humidity-sun-wind index.
- Vantage Pro2 optional Solar and UV Radiation Sensors: Greater awareness of the dangers of excessive exposure to the sun.
- For agricultural users: Evapotranspiration, leaf wetness, soil moisture and soil temperature with Vantage Pro2 optional sensors.

2. HOW EASY IS IT TO SET UP?
With most competing stations, you need to install each sensor separately, which adds complication and takes time and effort. Vantage Pro2 and Vantage Vue are factory-assembled to make setup as easy as possible. Just complete a few minor assembly steps, insert the battery, and you're ready to mount the sensor suite. Mounting is further simplified by using our optional tripod. On Vantage Pro2, gain further accuracy by detaching the anemometer from the sensor suite and mounting it separately.

3. WHAT IS THE MAXIMUM TRANSMISSION DISTANCE?
The wireless transmission range for most competing stations is generally quite limited. Although range is highly variable (depending not only on the physical features of the land and structure but also on RF interference in the area), Vantage Pro2 and Vantage Vue will almost always outperform the competition. And we offer wireless repeaters and Vantage Connect should you wish to extend the range even further.

4. HOW MANY HIGHS AND LOWS ARE MEASURED AND RECORDED?
Most other stations simply give you the current readings. If highs and lows are available at all, they are usually quite limited. Only Vantage Pro2 and Vantage Vue give you the highs and lows (and/or totals or averages) for just about all weather conditions, with time and/or date for the last 24 days, months or years for Vantage Pro2, and current and last 25 days, months or years for Vantage Vue. No other stations on the market even come close. And not only can you view the data numerically, you can also view on-screen graphs, for instant visual representations of long-term trends.

5. HOW OFTEN IS THE INFORMATION UPDATED?
The Vantage Pro2 and Vantage Vue transmitters send data to the console every 2.5 seconds. Highly variable conditions (such as wind speed and direction) are updated with each packet, while less variable conditions are updated every 10 seconds. With most competing stations, the update interval is much longer: 30 seconds, or even up to 3 minutes. This may not seem important, but try watching the wind gust or the rain suddenly come pouring down. It's very disconcerting to look out the window, see something happen weather-wise, and not see it reflected on the console right away.

6. HOW IS THE FORECAST GENERATED?
The competition generally bases their forecast on barometric pressure alone, which results in none too accurate a prediction. Vantage Pro2 and Vantage Vue use a sophisticated forecasting algorithm which takes into account not only barometric pressure, but also wind, rainfall, temperature, humidity and longitude and latitude. The result? A much more accurate forecast. Not perfect, but even the guys with the satellite pictures don't always get it right!

7. HOW IS THE FORECAST DISPLAYED?
Competing stations use icons to show the forecast. Vantage Pro2 and Vantage Vue have similar icons, plus Vantage Pro2 has over 80 different forecast messages that scroll across the bottom of the display. None of the other stations have this. The Vantage Pro2's ticker tape also gives additional information depending on which key you press. Both Vantage Pro2 and Vantage Vue are able to display 10-minute average wind speed, the last 15 minutes and last 24 hours of rain. These are only a few examples of Davis stations' unique features. Competing stations don't have anything like this.

8. HOW MUCH DATA CAN YOU GRAPH ON THE SCREEN?
With Vantage Pro2 and Vantage Vue, you can graph just about every weather variable, with averages and highs and lows for most, and go back in time for minutes, days, months and years. The competition typically graphs just one variable—barometric pressure—and typically just for the last 24 hours. With all the graphs on Vantage Pro2, and with the Weather Center feature on Vantage Vue, you can do tons of analysis, even without purchasing a software package. You'll find that the more dramatic the weather is, the more fun it is to look at the graphs. Just how windy is it and how does it compare to the last wind storm? How much rain did we get this month as compared to last month?

9. CAN YOU USE THE STATION AT HIGHER ELEVATIONS?
Our stations can be used up to 15,000 ft. (4570 m) in elevation. Many competing stations are limited to 6,000 ft. (1829 m) or below. If you're lucky enough to live and work—or perhaps enjoy a vacation home—in the mountains, you'll find that our Vantage Pro2 and Vantage Vue weather stations work just fine, no matter what the elevation.

10. IS THERE A COMPUTER INTERFACE?
If you'd like to do even more analysis, add our WeatherLink data logger and software package. The data logger stores data at the interval you choose (from one minute to two hours) for up to six months. Transfer the data whenever you like, or leave your computer on to have it transfer automatically every day. For some competing stations, no software package is available. Other stations do offer software, but don't include a data logger—so your PC must be on and the software running at all times.

11. HOW MANY ALARMS ARE THERE?
With Vantage Pro2 and Vantage Vue, alarms can be set for just about every weather variable, for just about any reason imaginable—up to 70 alarms for Vantage Pro2 and 22 for Vantage Vue. The alarms found on competing stations are generally quite limited.

12. WHAT IS THE ACCURACY, RESOLUTION, AND RANGE?
Vantage Pro2 and Vantage Vue generally beat their similarly-priced competition in accuracy, resolution and range. It can be difficult to find the specs for competing stations. When we do find them, our testing shows that they are a bit, shall we say, optimistic. We are proud to publish our specs in our catalog and on our website, and stand behind them 100%.

13. HOW MANY PEOPLE ARE USING THE STATIONS?
There are many, many thousands of happy Davis weather station users around the country and around the world. Check out "Weather World 'Round" in the weather section of www.davisnet.com under "Cool Stuff" and click on links to visit websites of Davis weather station owners around the world. You'll find that many other Davis weather station owners participate as volunteer observers for the National Weather Service, the National Hurricane Center, and numerous local TV and radio stations. You can also visit www.weatherlink.com and see a worldwide map of Davis weather station owners who use our WeatherLinkIP software, which along with other features, creates its own weather website for your weather station.

14. HOW LONG HAS THE COMPANY BEEN IN BUSINESS?
Established in 1963, Davis Instruments opened up the home weather station market back in 1989. Our weather stations are assembled and tested right here in Hayward, California, where we have a full staff giving the best customer service and aftermarket support in the business. In addition, Davis Instruments Quality Management System is ISO 9001 certified.

CarChip Connect's cellular power sends detailed car information in real time to the web

In addition to quality Weather products, Davis also offers Fleet Management products as well. Our CarChip family of vehicle monitors fulfills the most simplistic to the most complicated vehicle monitoring and performance needs.

With CarChip Connect, your car may be out of sight, but it's never out of range. Whether it's carrying your business reputation or the precious cargo of your family, you'll be able to see when, where and how your car is driven in real time.

Simply plug the small yet powerful, GPS telematics unit into the vehicle's OBD II (onboard diagnostics) port and log on to a secure, private, user-friendly website. You'll see your vehicle's location, its speed, driving routes, even engine diagnostic and performance data. You can also set custom alerts to notify you of driver speed, hard or extreme braking or cornering, going in or out of a pre-defined area, and when the check engine light is on.

Requires service agreement. To learn more, please visit www.carchipconnect.com.

8351 CarChip Connect
PATENTED

View your vehicle's location in real time from anywhere you have internet service.

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EXTENSION CABLES

Our Standard 4-Conductor Extension Cables include a coupler kit (protective shell; cable coupler; and five waterproof, silicone-filled, crimp-style splice connectors) for joining two cables together, indoors or out. Use the chart below to determine maximum cable lengths.

7876-008 8' (2.4 m)
7876-040 40' (12 m)
7876-100 100' (30 m)
7876-200 200' (61 m)

Product	Cable Use	Included Cable Length	Maximum Cable Length
Wireless Vantage Pro2	Anemometer to Integrated Sensor Suite	40' (12 m)	240' (73 m)*
Cabled Vantage Pro2	Anemometer to Integrated Sensor Suite	40' (12 m)	240' (73 m)*
	Console to Integrated Sensor Suite	100' (30 m)	1000' (300 m)
Cabled Vantage Pro2 ISS with Cabled Vantage Connect	Vantage Connect to Integrated Sensor Suite	100' (30 m)	1000' (300 m)
WeatherLink for Vantage Pro2 and Vantage Vue (serial port versions)**	Data Logger to Serial Port	8' (2.5 m)	48' (14.6 m)
Solar Radiation Sensor (6450)	Sensor to Integrated Sensor Suite	2' (0.6 m)	125' (38 m)
UV Sensor (6490)	Sensor to Integrated Sensor Suite	2' (0.6 m)	125' (38 m)
Stainless Steel Temperature Probe with RJ Connector (6475)	Probe to Wireless Temperature Station, Weather Envoy, Envoy8X, or Anemometer/Sensor Transmitter Kit	25' (7.6 m)	200' (61 m)
Temperature Probe with RJ Connector (6477)			
Leaf Wetness Sensor (6420)	Sensor to Wireless Leaf & Soil Moisture/Temperature Station	40' (12 m)	200' (61 m)
Anemometer (6410)	Sensor to Integrated Sensor Suite or Anemometer/Sensor Transmitter Kit	40' (12 m)	240' (73 m)*
Rain Collector (standalone, 7852)	Collector to Integrated Sensor Suite or Anemometer/Sensor Transmitter Kit	40' (12 m)	900' (270 m)
Rain Collector with Mountable Base (7857)	Collector to Integrated Sensor Suite or Anemometer/Sensor Transmitter Kit	40' (12 m)	900' (270 m)

* **Anemometer Cables:** Maximum displayable wind speed decreases as the length of cable increases. At 140' (42 m) of cable, the maximum wind speed displayed is 135 mph (60 m/s). At 240' (73 m) of cable, the maximum wind speed displayed is 100 mph (45 m/s).

** **WeatherLink USB:** Extension cables may be purchased from a computer supplier.

To extend the cables on the Temperature Probe (6470), Soil Moisture Sensor (6440), and Rain Collector Heater (7720), please call us directly.

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